



Report No.: XEWM2309000447RG01

Rev.: 01

Page: 1 of 64

# Appendix B.1

## GSM850&1900



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.81	28.78	38.45	PASS
GSM850	190	32.86	28.83	38.45	PASS
GSM850	251	32.92	28.89	38.45	PASS

Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	28.41	24.38	38.45	PASS
EGPRS850	128	2	27.34	23.31	38.45	PASS
EGPRS850	128	3	25.31	21.28	38.45	PASS
EGPRS850	128	4	24.26	20.23	38.45	PASS
EGPRS850	190	1	28.14	24.11	38.45	PASS
EGPRS850	190	2	27.16	23.13	38.45	PASS
EGPRS850	190	3	25.21	21.18	38.45	PASS
EGPRS850	190	4	24.10	20.07	38.45	PASS
EGPRS850	251	1	27.99	23.96	38.45	PASS
EGPRS850	251	2	27.02	22.99	38.45	PASS
EGPRS850	251	3	25.03	21.00	38.45	PASS
EGPRS850	251	4	23.90	19.87	38.45	PASS



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Report No.: XEWM2309000447RG01

Rev.: 01

Page: 3 of 64

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	30.14	29.04	33.00	PASS
GSM1900	661	30.19	29.09	33.00	PASS
GSM1900	810	29.90	28.80	33.00	PASS

Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	26.48	25.38	33.00	PASS
EGPRS1900	512	2	25.64	24.54	33.00	PASS
EGPRS1900	512	3	23.96	22.86	33.00	PASS
EGPRS1900	512	4	22.97	21.87	33.00	PASS
EGPRS1900	661	1	26.14	25.04	33.00	PASS
EGPRS1900	661	2	25.46	24.36	33.00	PASS
EGPRS1900	661	3	23.84	22.74	33.00	PASS
EGPRS1900	661	4	22.83	21.73	33.00	PASS
EGPRS1900	810	1	26.05	24.95	33.00	PASS
EGPRS1900	810	2	25.33	24.23	33.00	PASS
EGPRS1900	810	3	23.72	22.62	33.00	PASS
EGPRS1900	810	4	22.62	21.52	33.00	PASS



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Report No.: XEWM2309000447RG01

Rev.: 01

Page: 4 of 64

## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	7.36	13	PASS
GSM850	190	7.36	13	PASS
GSM850	251	7.16	13	PASS
EGPRS850	128	11.96	13	PASS
EGPRS850	190	12.14	13	PASS
EGPRS850	251	12.04	13	PASS
GSM1900	512	9.58	13	PASS
GSM1900	661	9.6	13	PASS
GSM1900	810	9.6	13	PASS
EGPRS1900	512	11.74	13	PASS
EGPRS1900	661	11.66	13	PASS
EGPRS1900	810	11.66	13	PASS

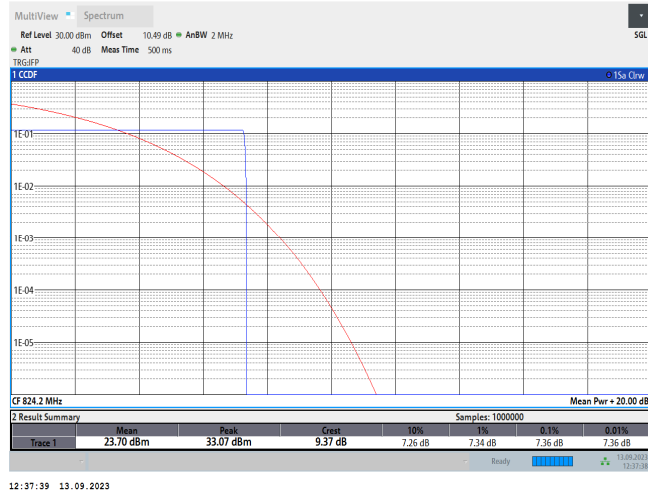


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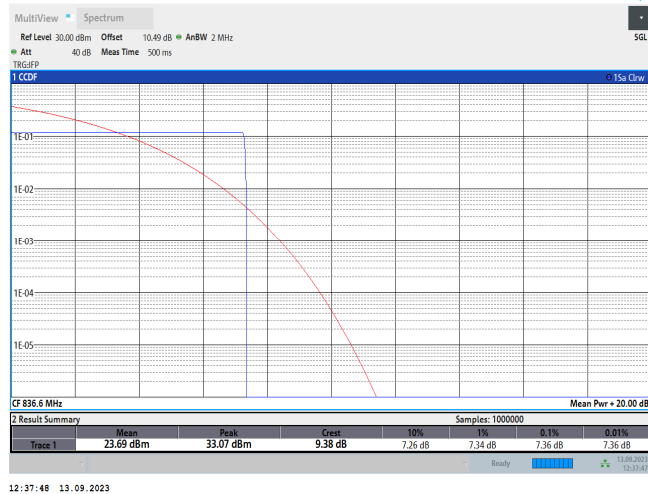
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Test Graphs

GSM850-128



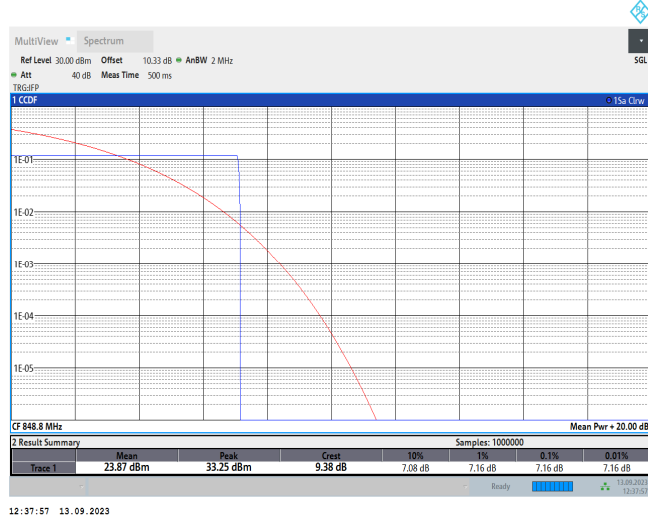
GSM850-190



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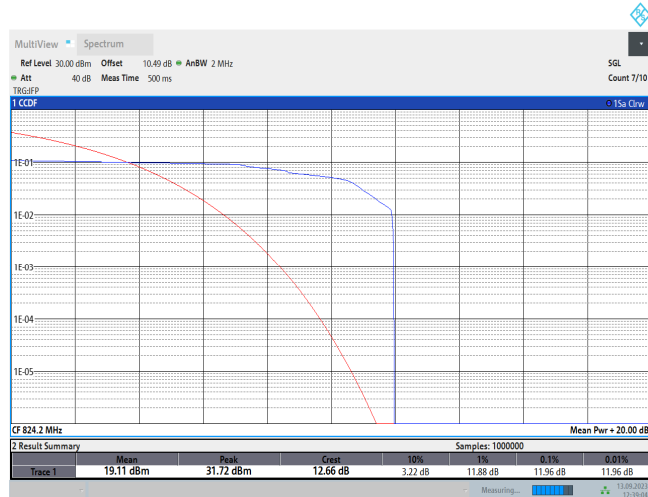
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GSM850-251



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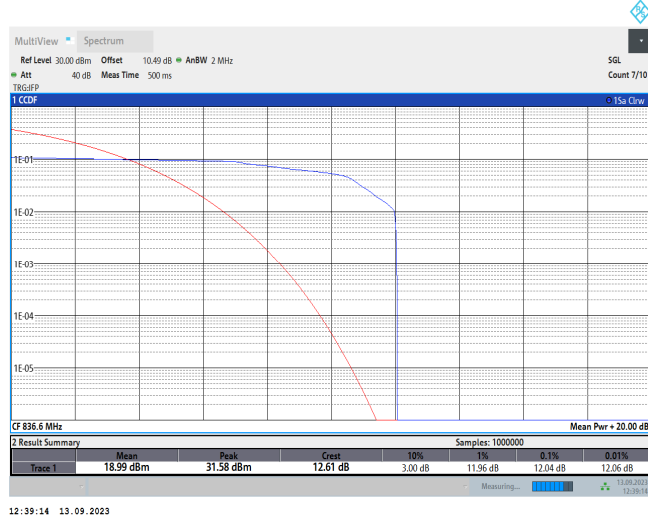
EGPRS850-128



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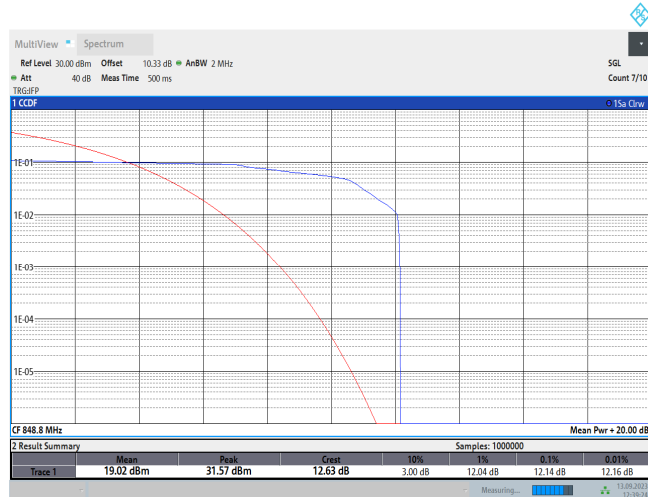


EGPRS850-190



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EGPRS850-251

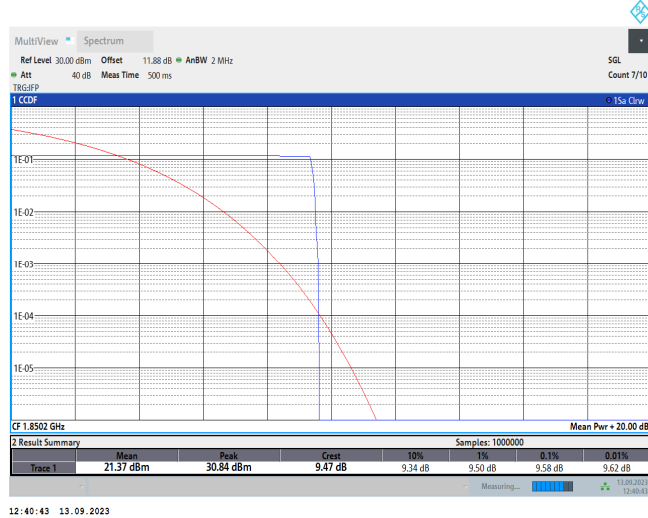


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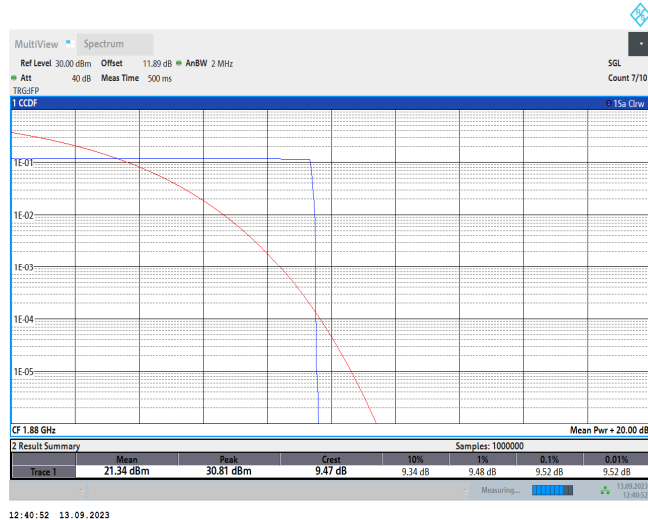




GSM1900-512



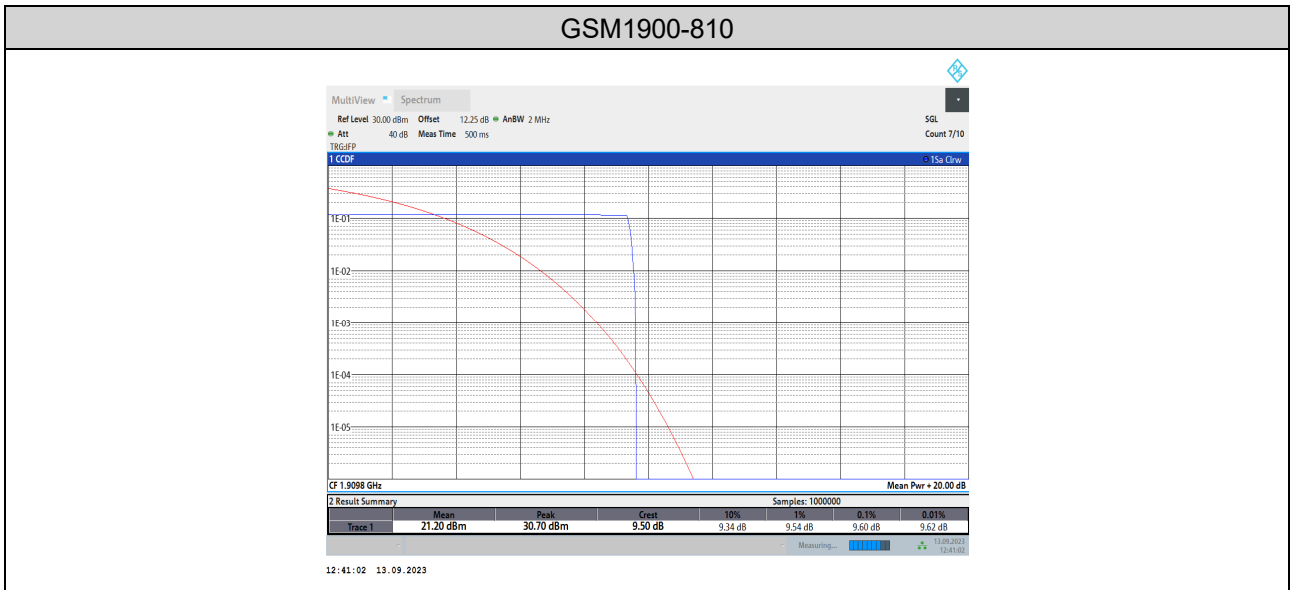
GSM1900-661



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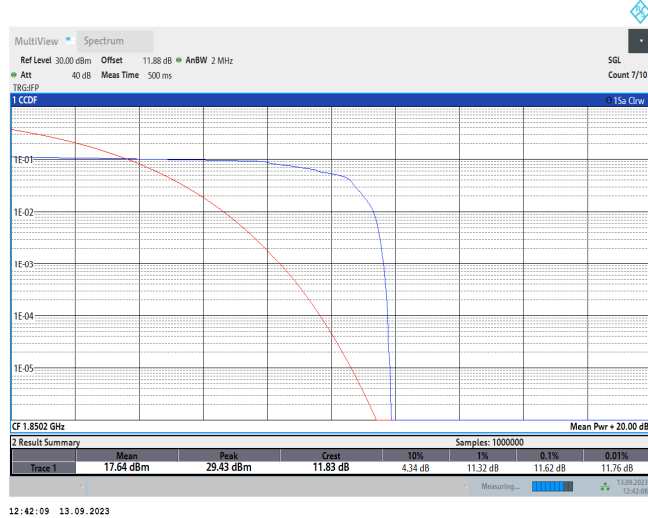


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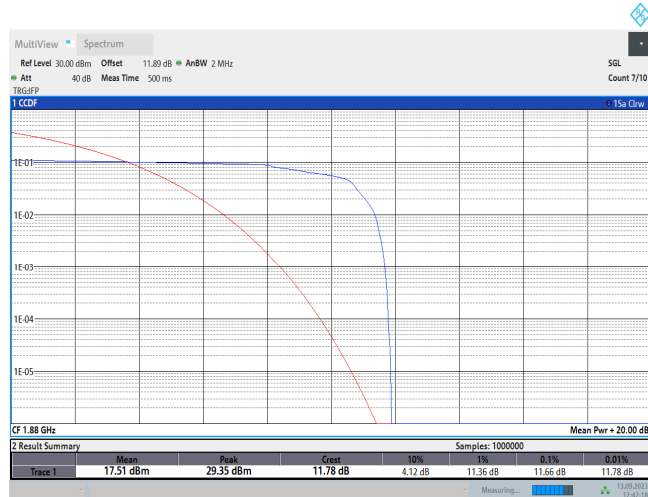


EGPRS1900-512



12:42:09 13. 09. 2023

EGPRS1900-661



12:42:19 13. 09. 2023

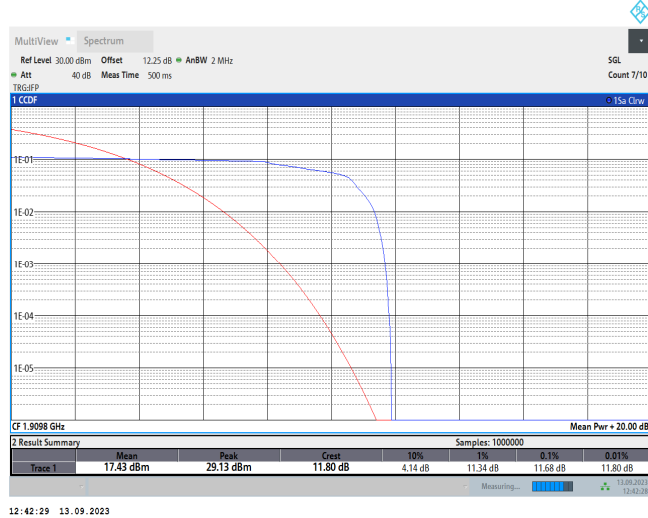


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EGPRS1900-810



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

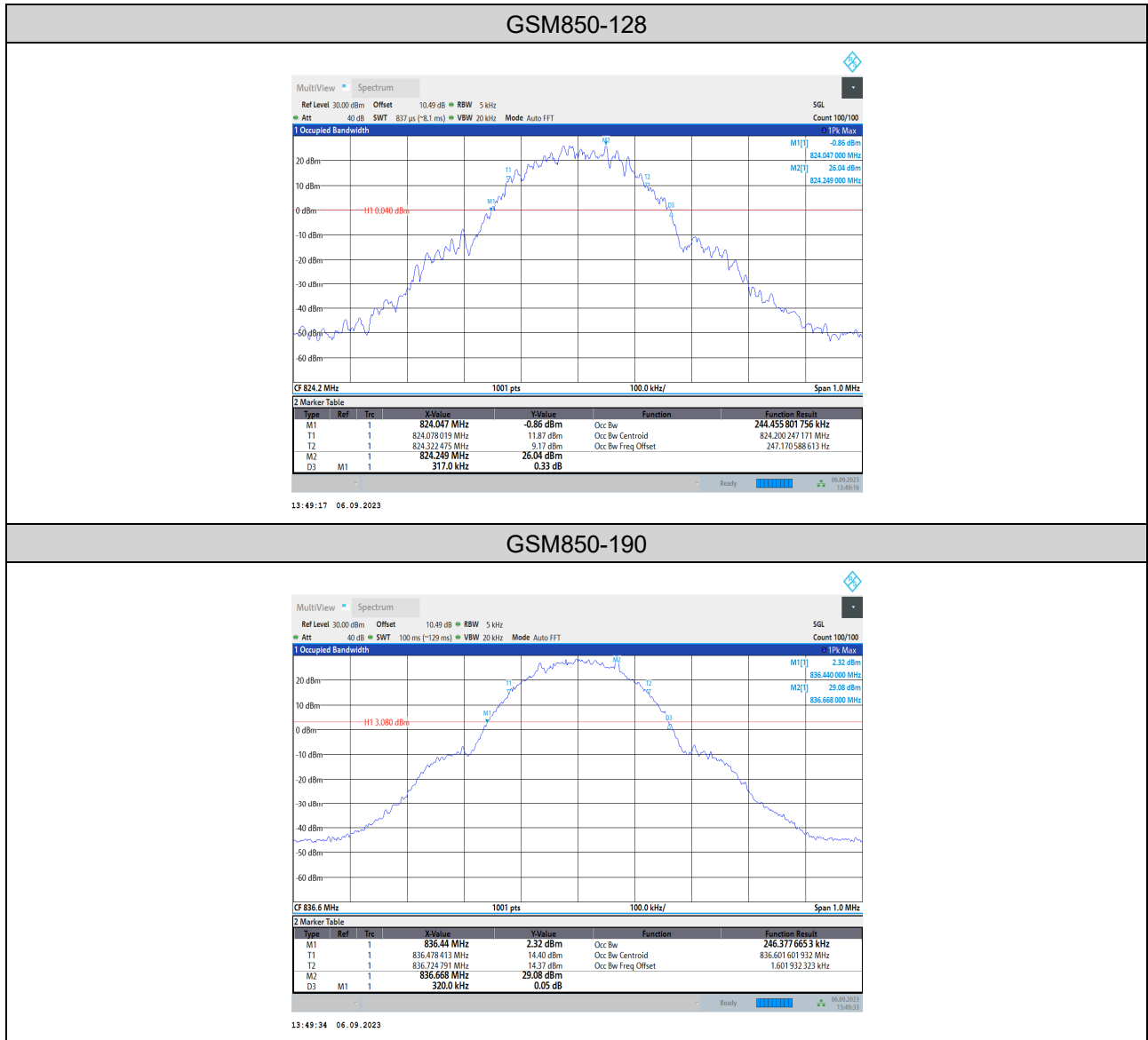
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.244	0.32	---	PASS
GSM850	190	0.246	0.32	---	PASS
GSM850	251	0.248	0.32	---	PASS
EGPRS850	128	0.252	0.33	---	PASS
EGPRS850	190	0.251	0.32	---	PASS
EGPRS850	251	0.252	0.33	---	PASS
GSM1900	512	0.244	0.32	---	PASS
GSM1900	661	0.245	0.31	---	PASS
GSM1900	810	0.244	0.31	---	PASS
EGPRS1900	512	0.267	0.35	---	PASS
EGPRS1900	661	0.266	0.36	---	PASS
EGPRS1900	810	0.266	0.36	---	PASS



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Test Graphs

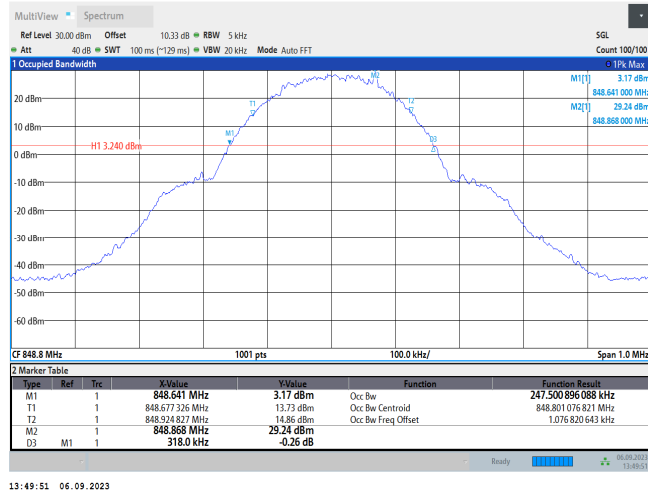


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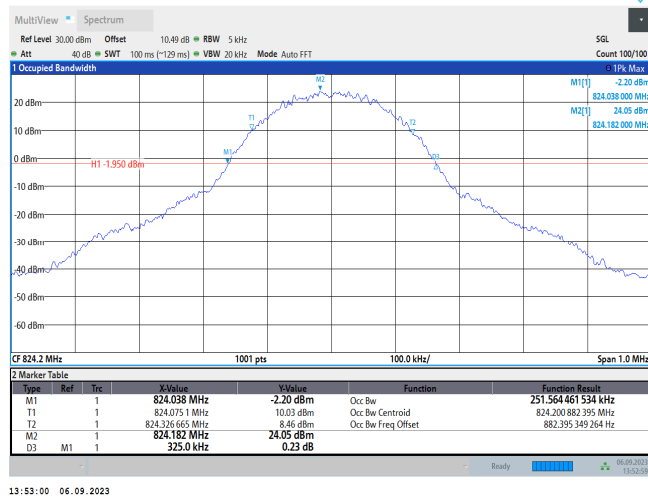
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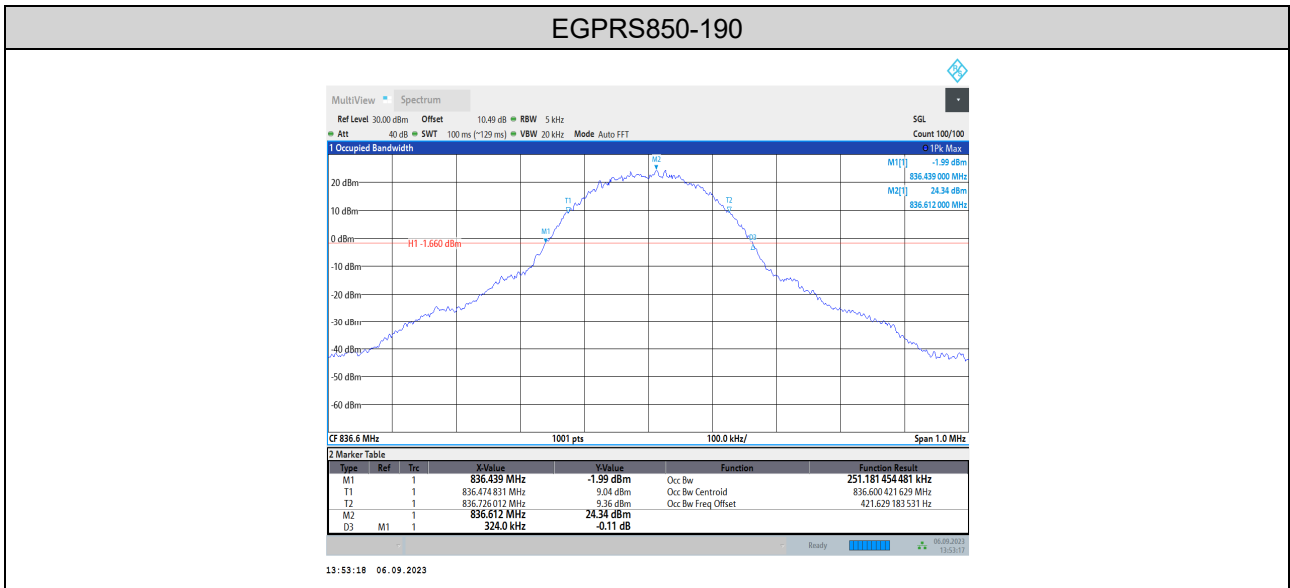
GSM850-251



EGPRS850-128



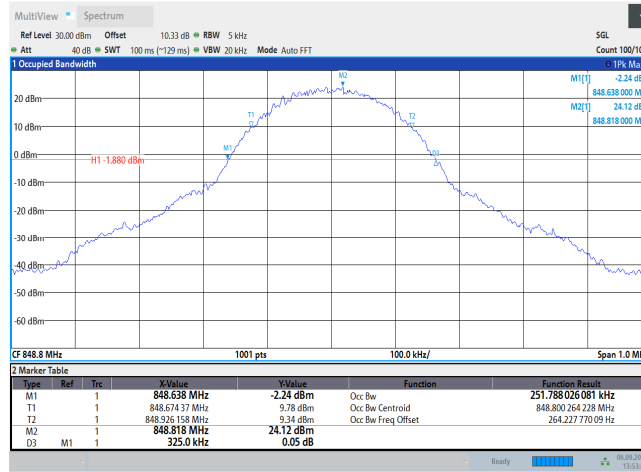
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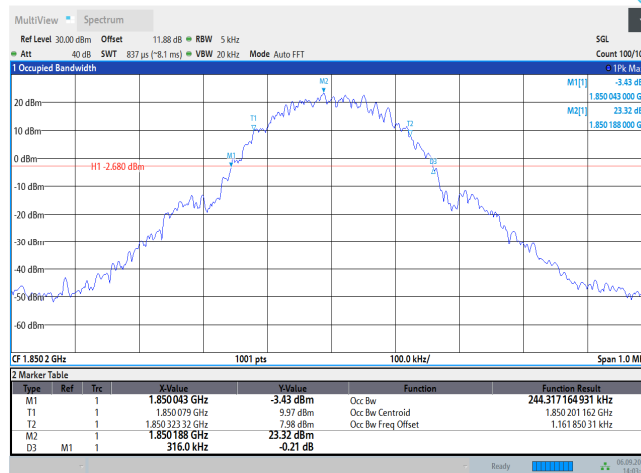
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EGPRS850-251



13:53:36 06.09.2023

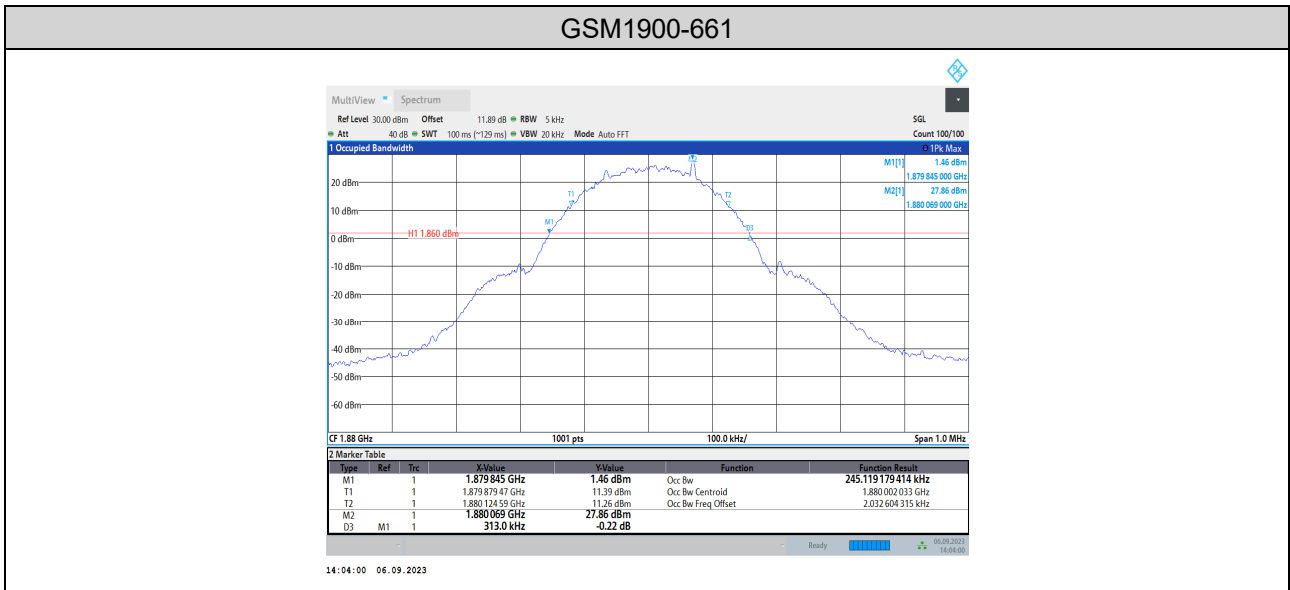
GSM1900-512



14:03:43 06.09.2023



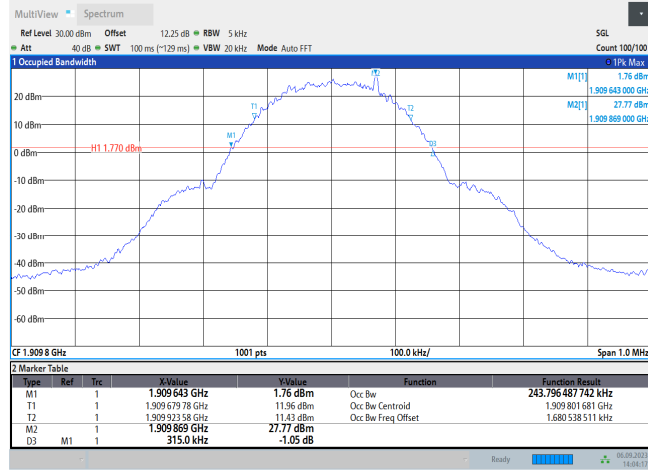




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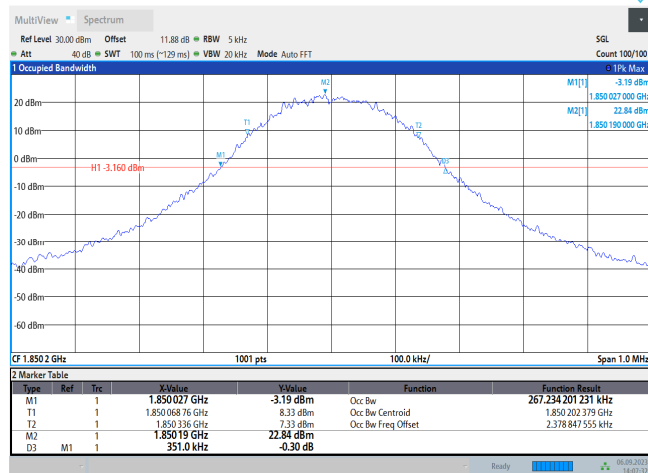
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GSM1900-810



14:04:17 06.09.2023

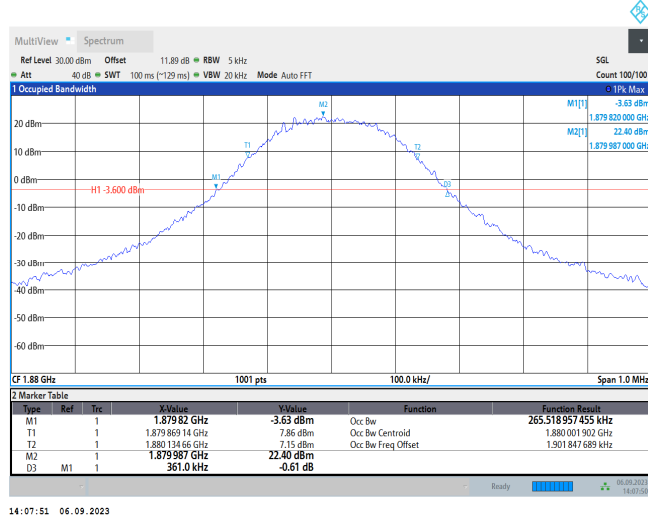
EGPRS1900-512



14:07:32 06.09.2023

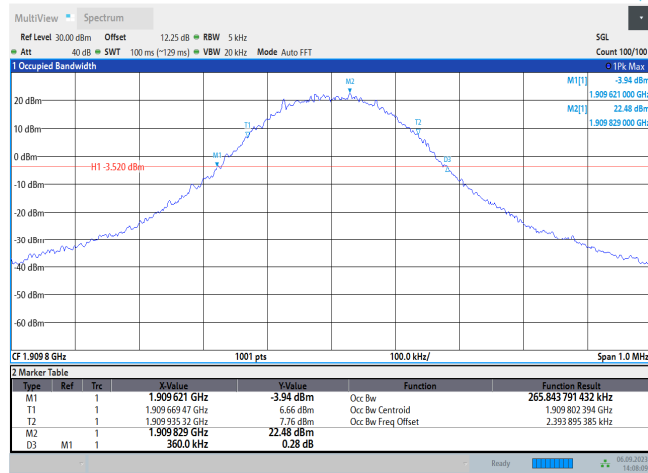


EGPRS1900-661



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EGPRS1900-810

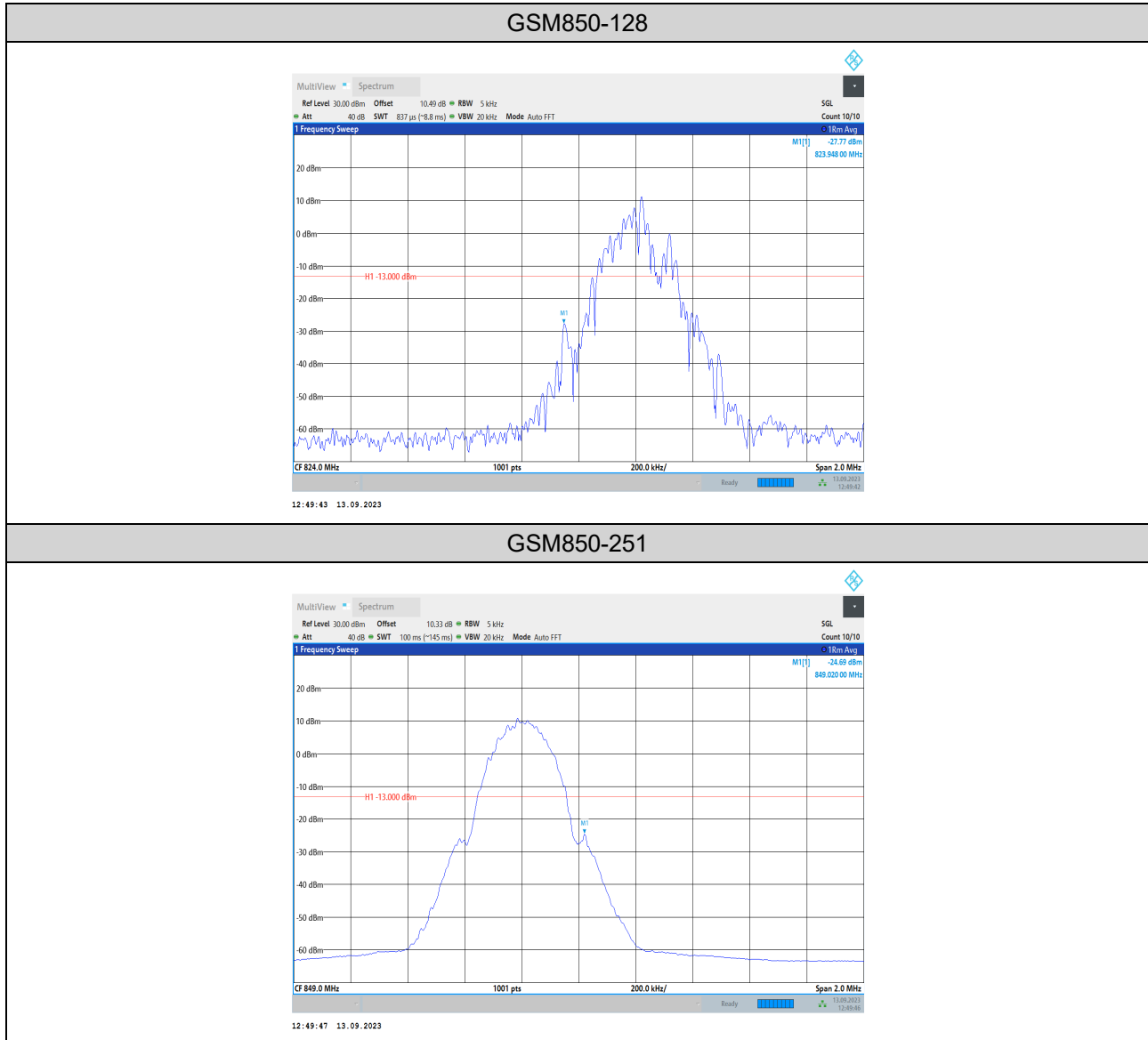


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## Band Edge

## Test Graphs

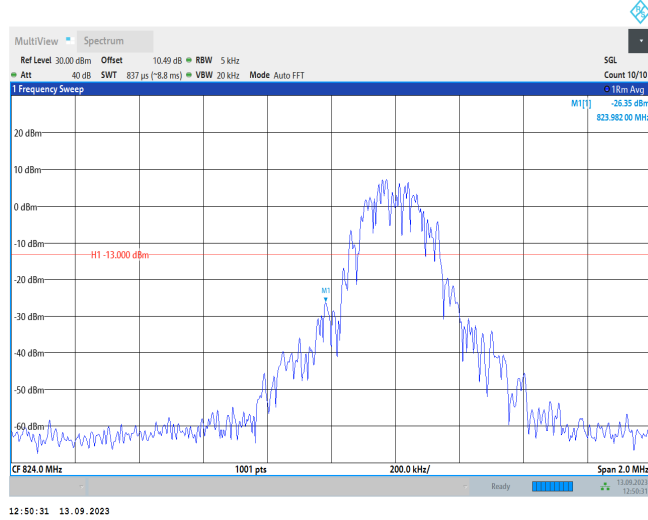


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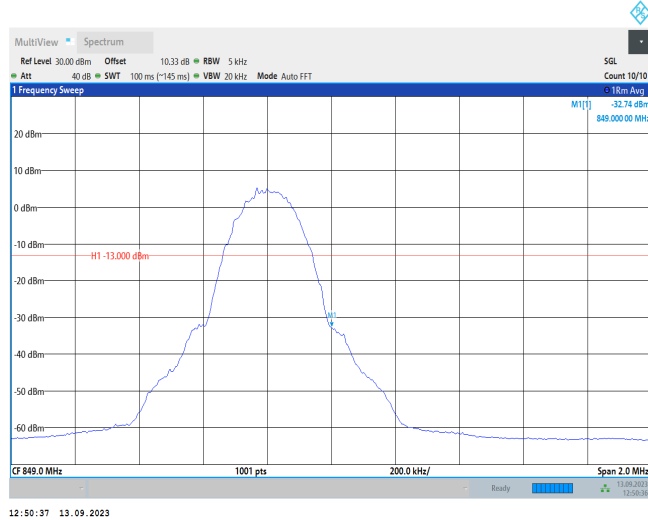
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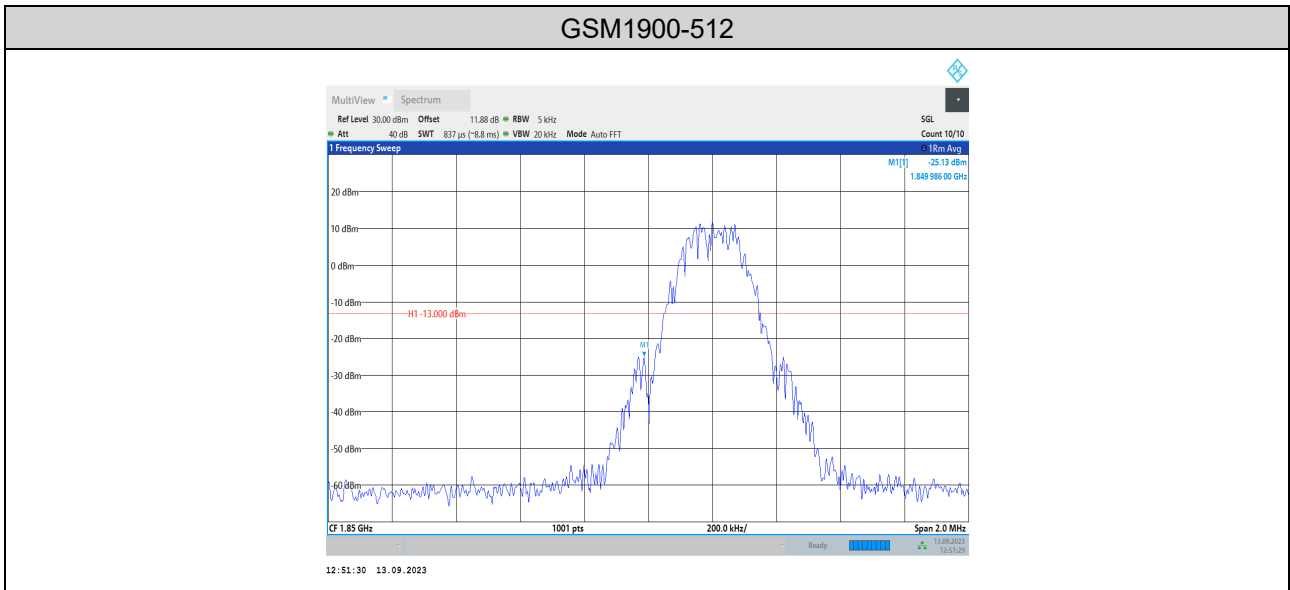
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 中国·西安·沣东新城科源三路137号康鸿源方科技园1号楼D单元1层 邮编: 710086 t (86-29) 6282 7885 sgs.china@sgs.com

EGPRS850-128



EGPRS850-251

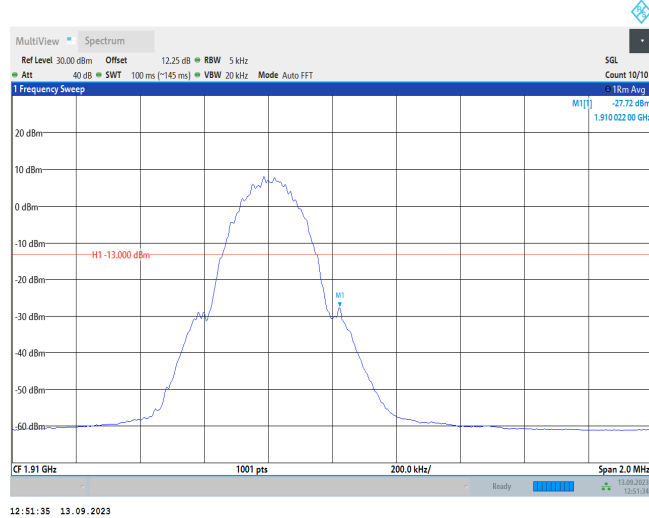




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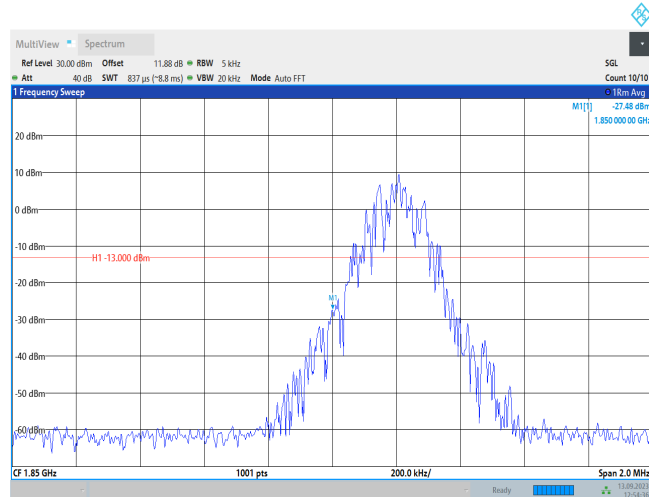
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GSM1900-810



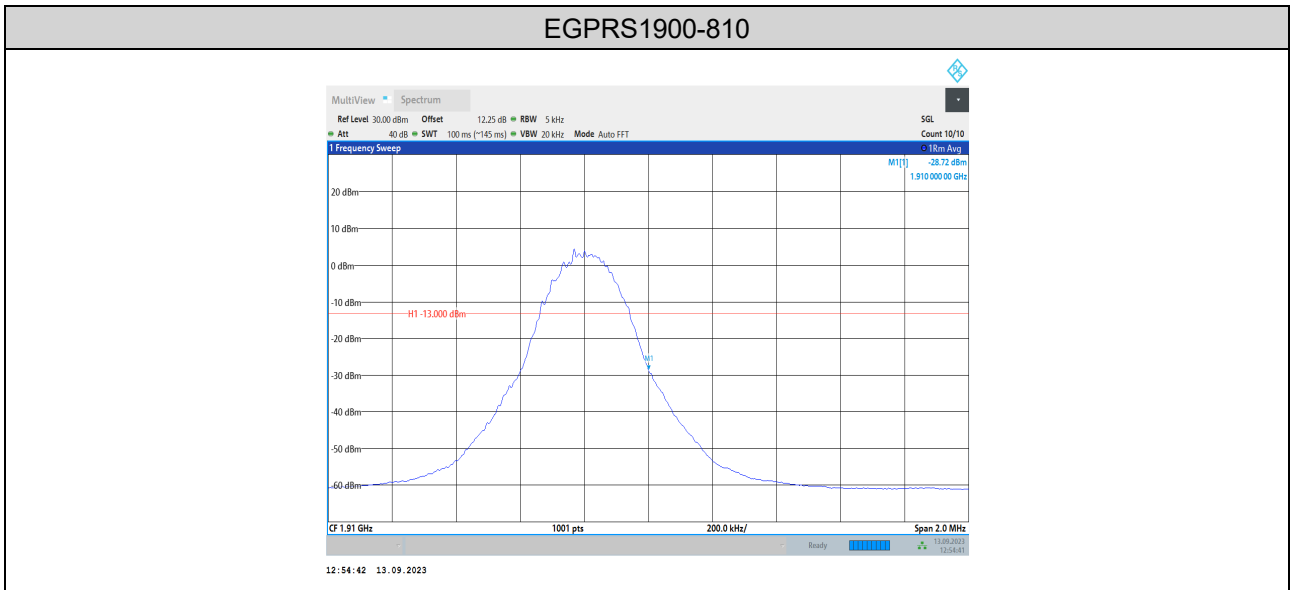
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EGPRS1900-512



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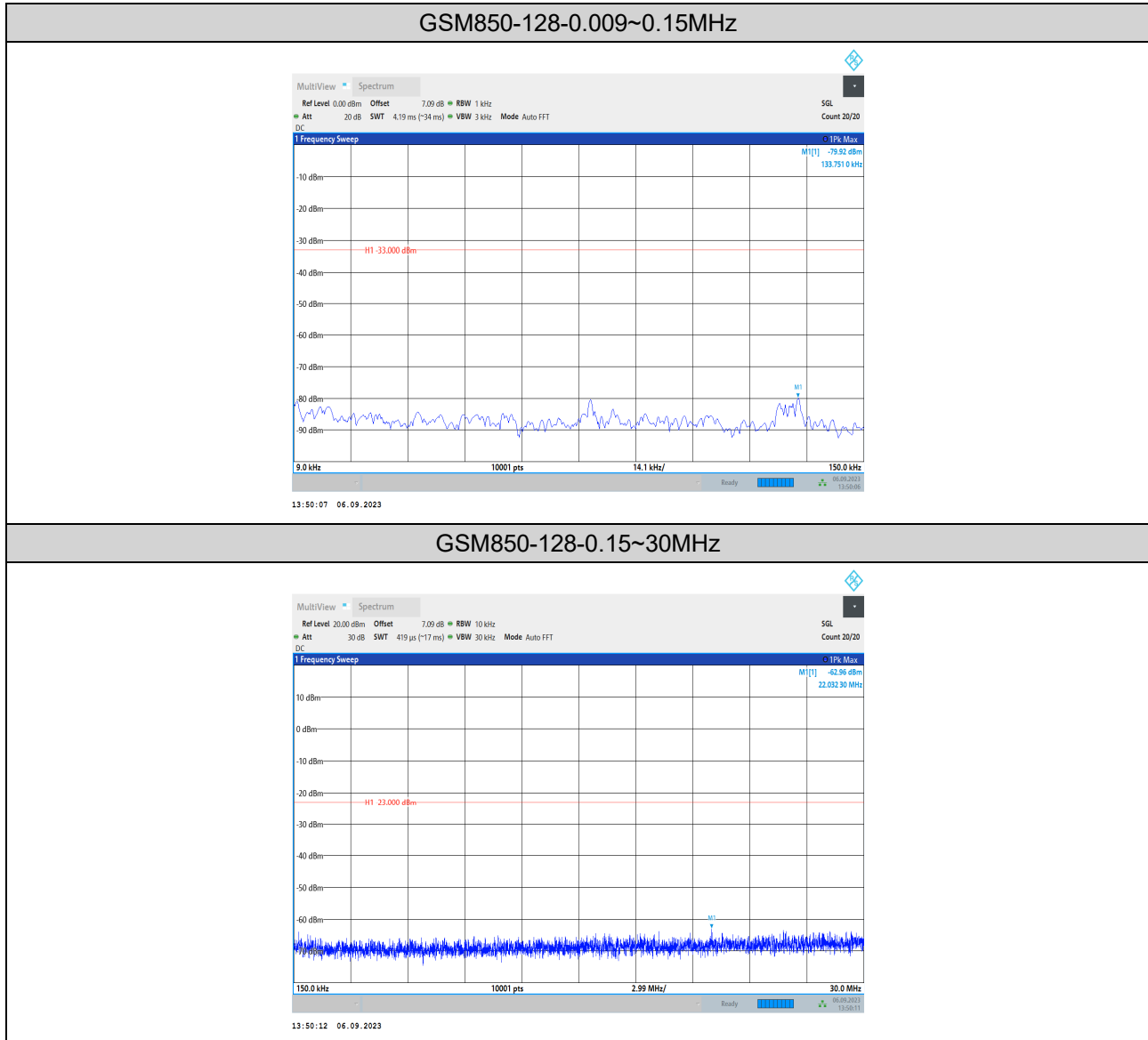
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## Conducted Spurious Emission

### Test Graphs

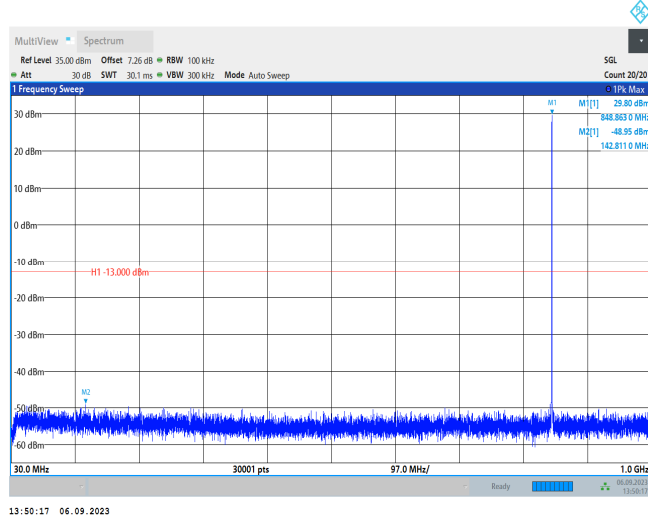


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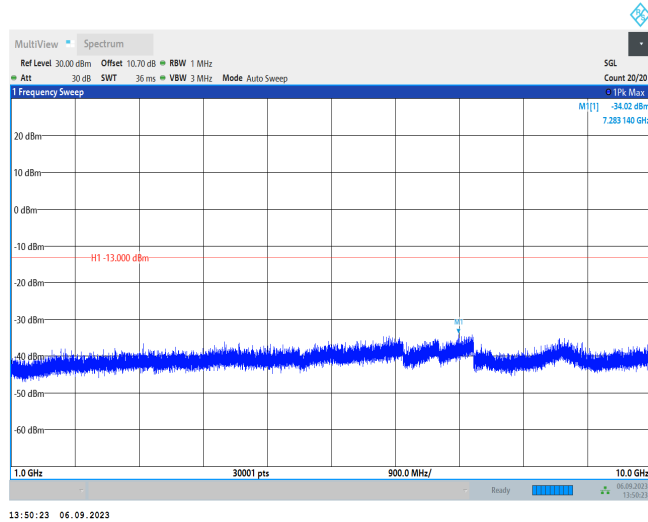
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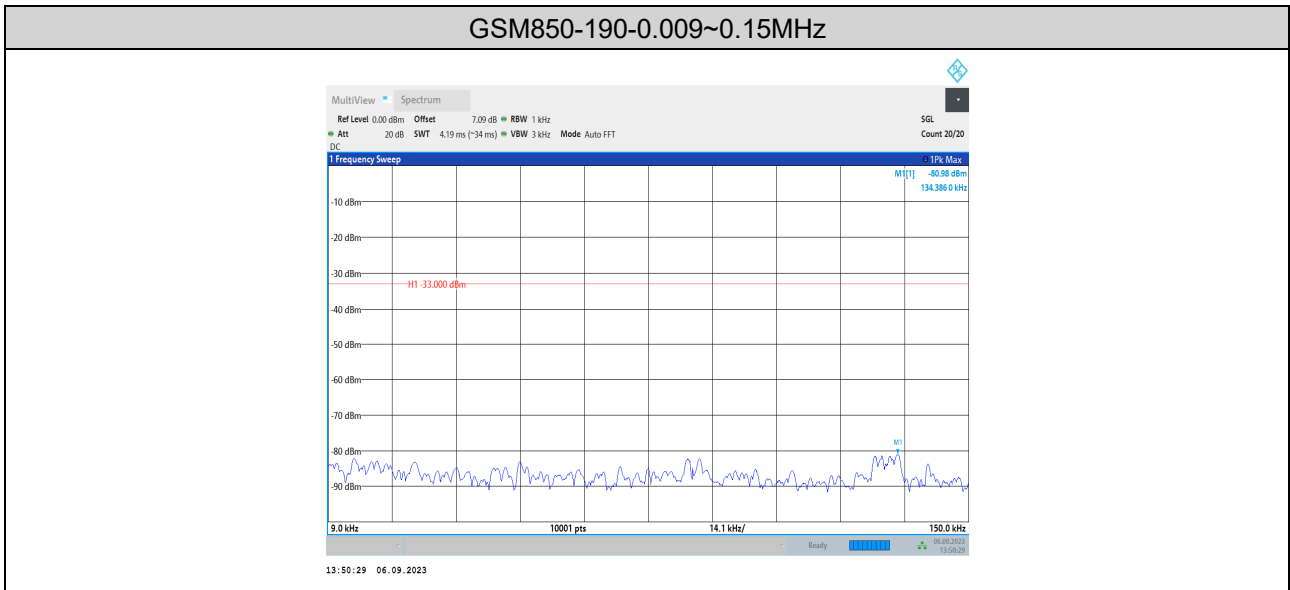


GSM850-128-30~1000MHz



GSM850-128-1000~10000MHz

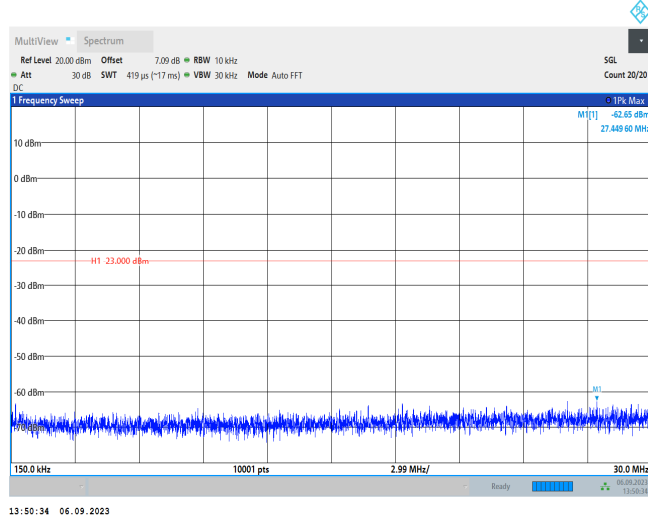




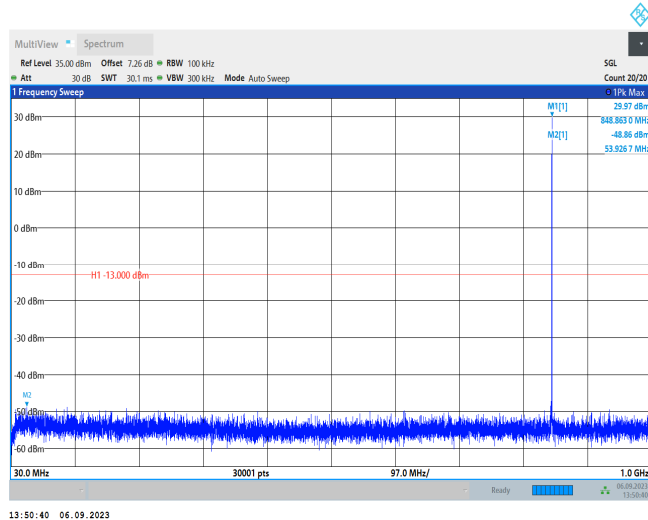
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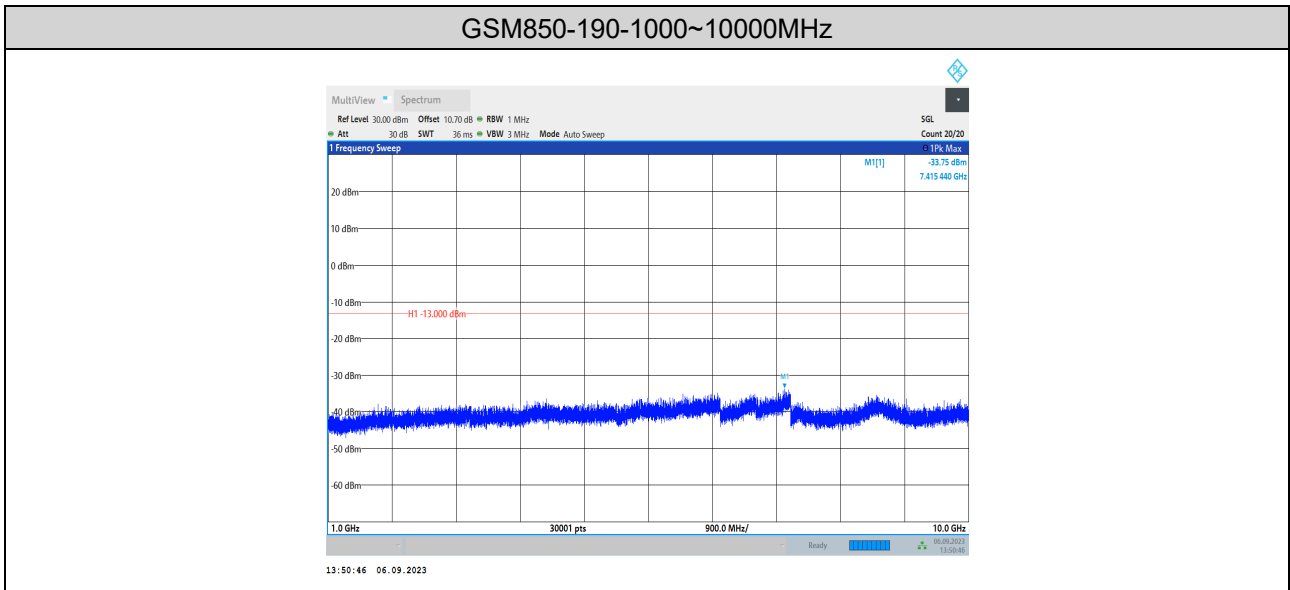
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GSM850-190-0.15~30MHz

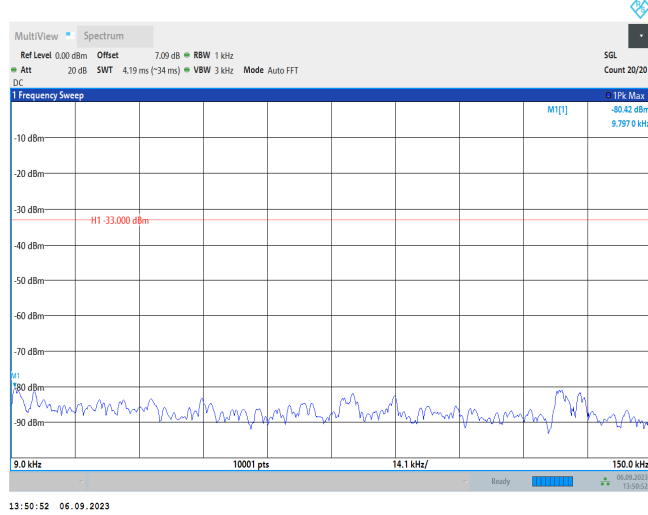


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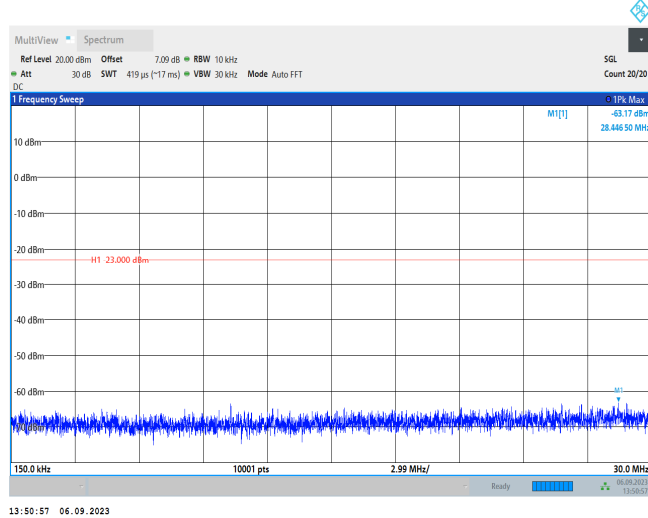


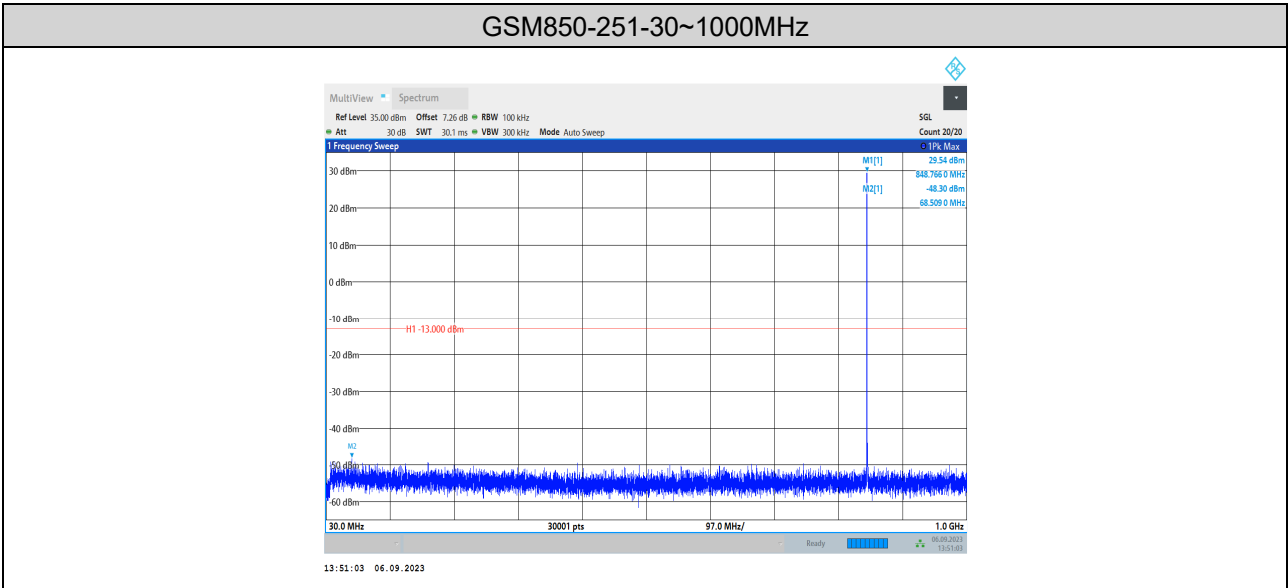


GSM850-251-0.009~0.15MHz



GSM850-251-0.15~30MHz

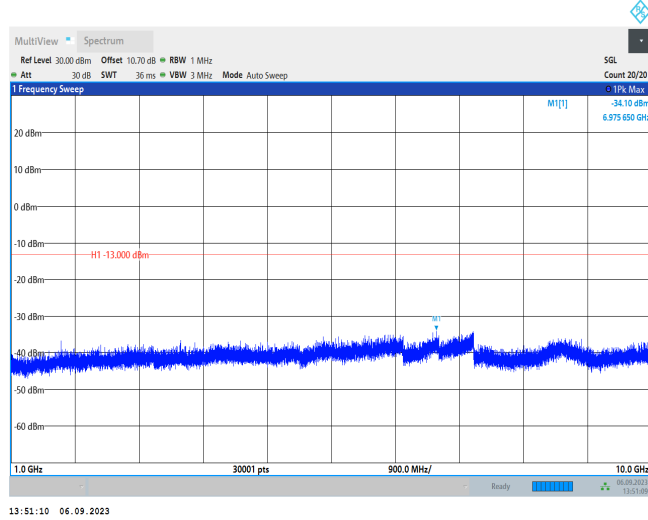




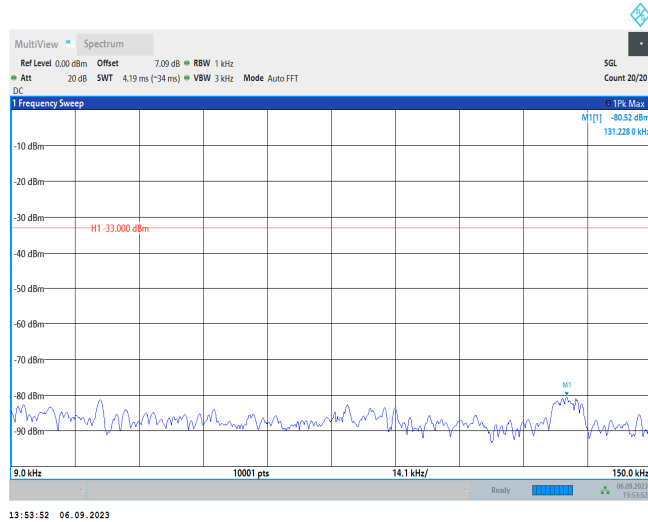
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GSM850-251-1000~10000MHz

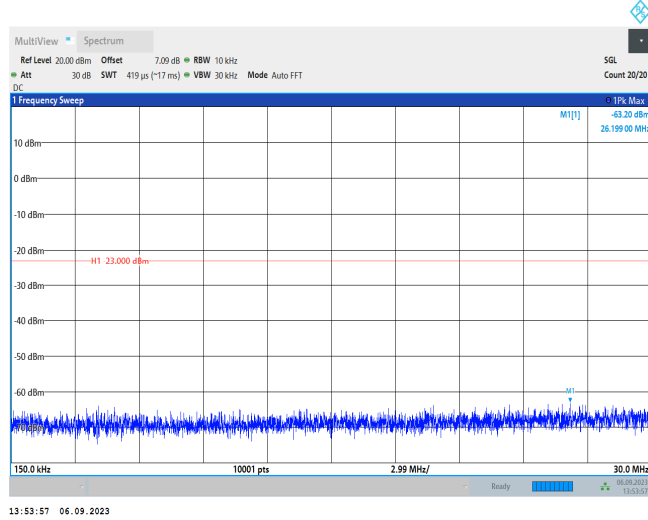


EGPRS850-128-0.009~0.15MHz





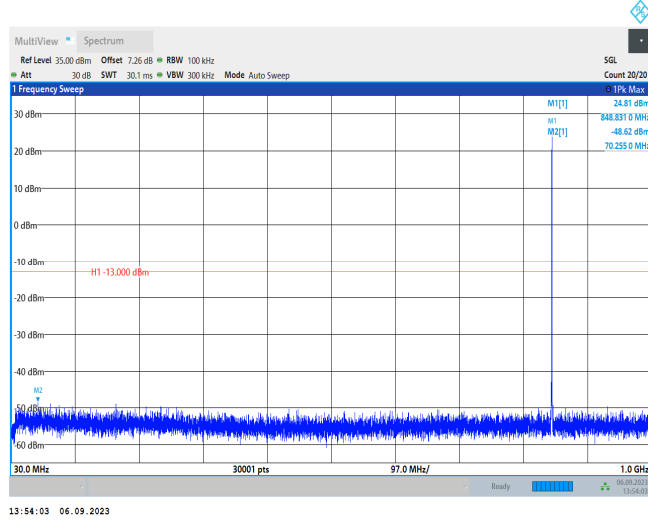
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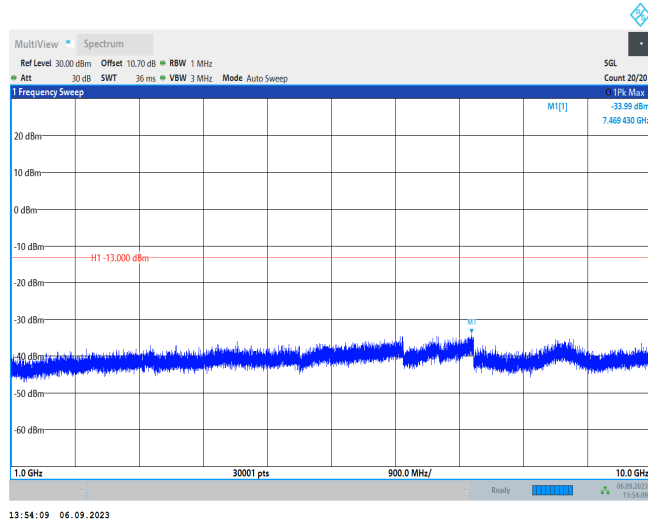
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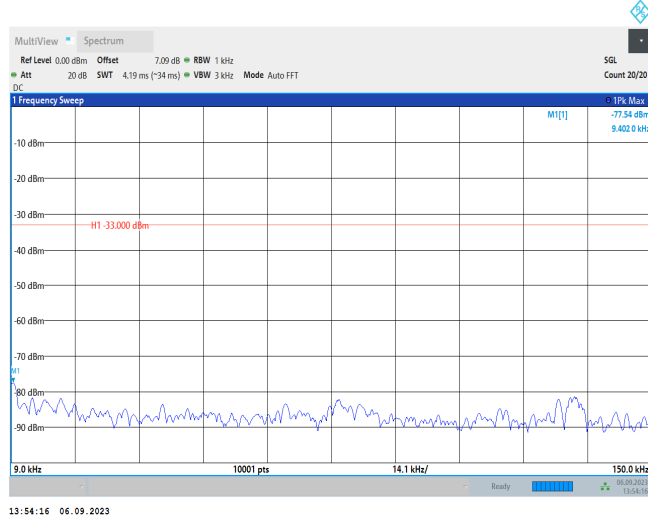
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EGPRS850-128-1000~10000MHz



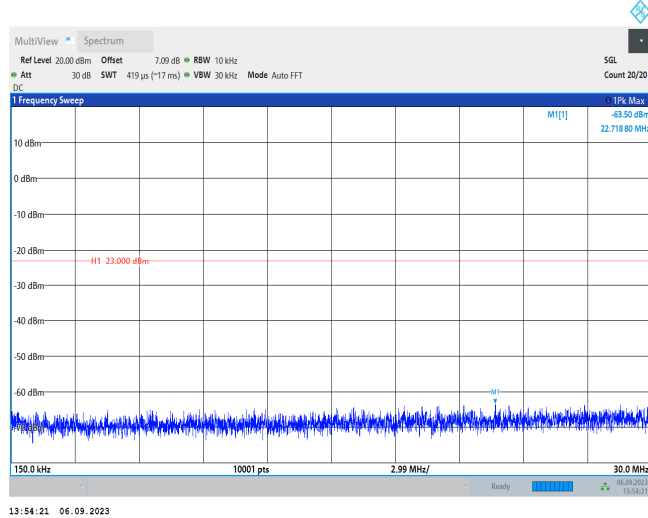
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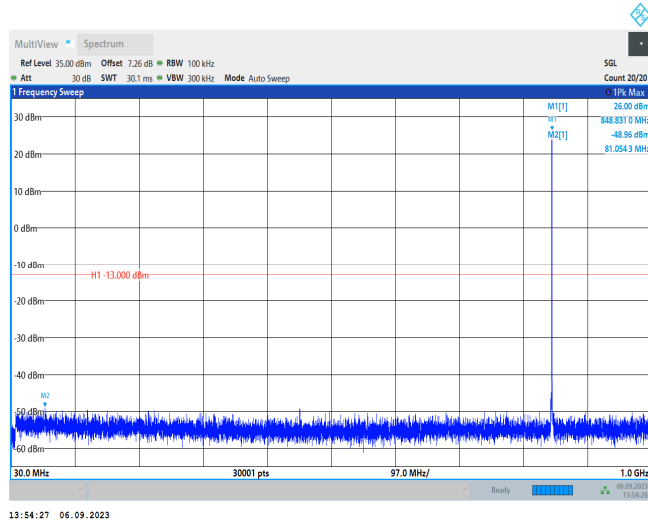
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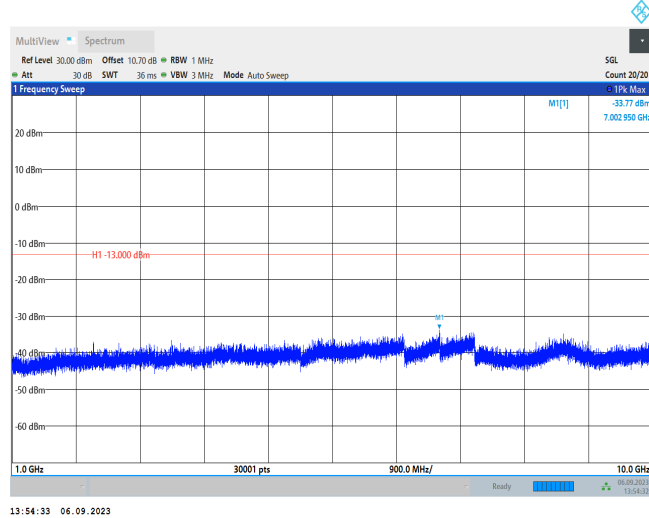
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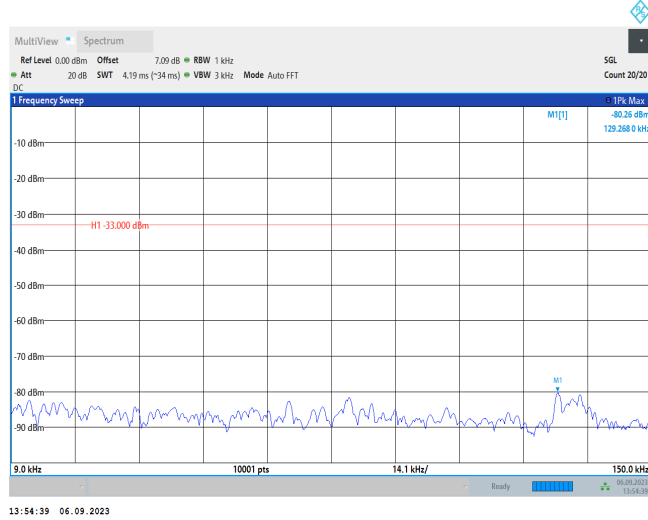
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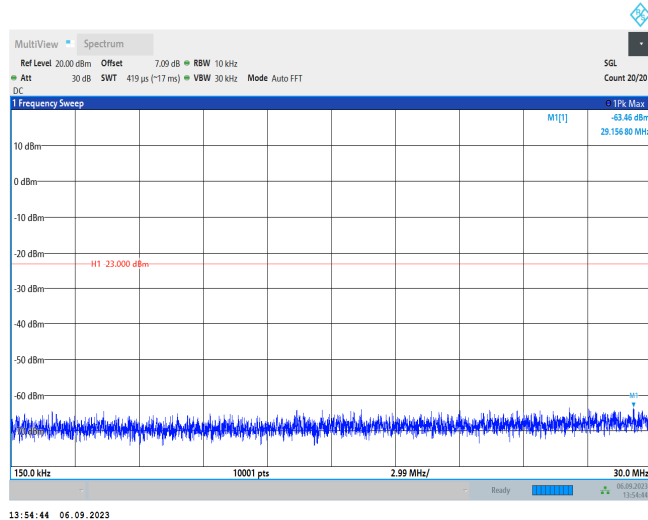
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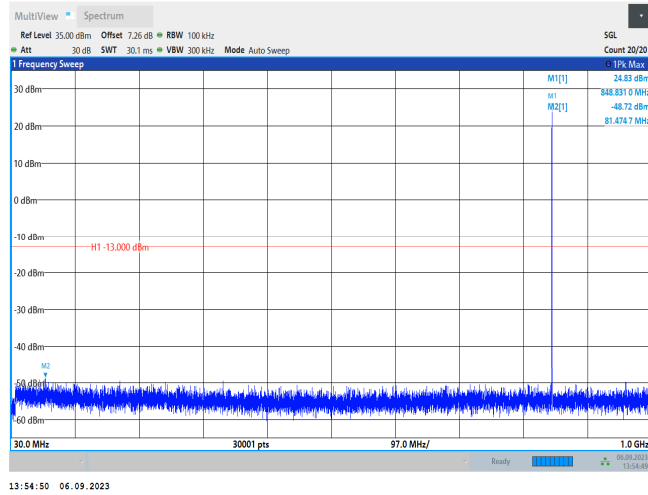
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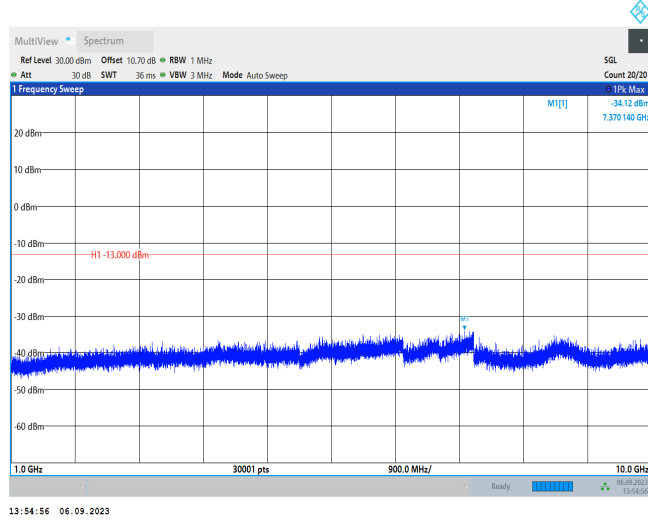
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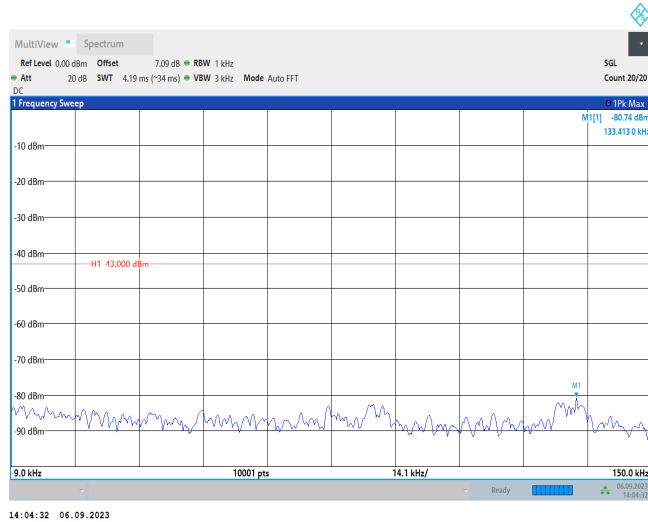
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EGPRS850-251-1000~10000MHz



GSM1900-512-0.009~0.15MHz



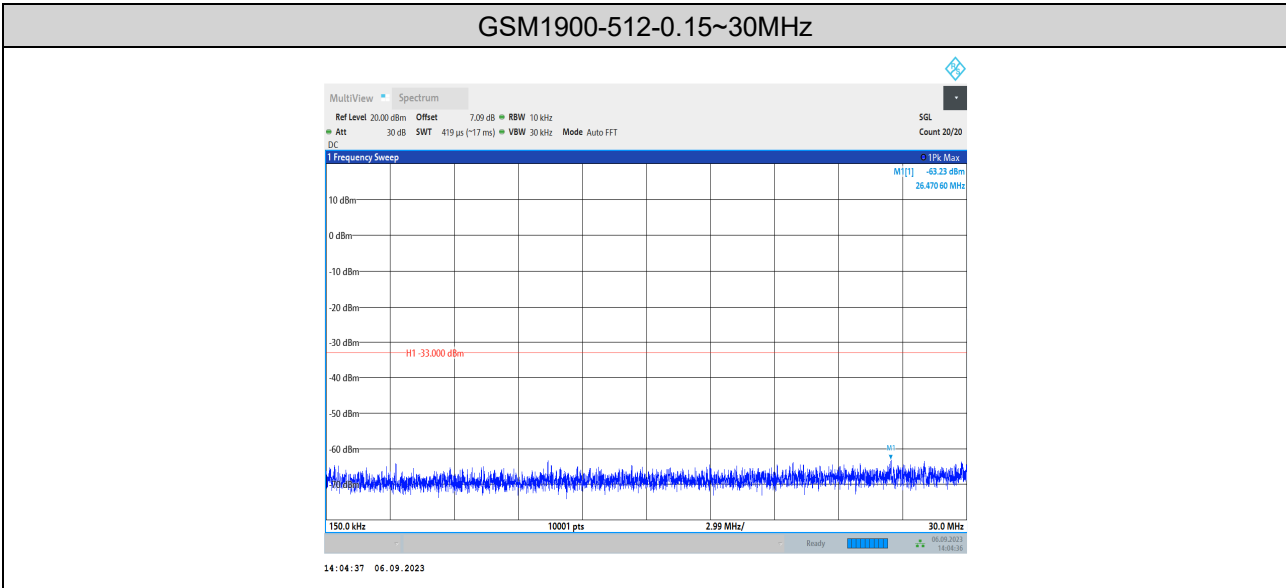
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中国·西安·沣东新城科源三路137号康隆橙方科技园1号楼D单元1层 邮编: 710086

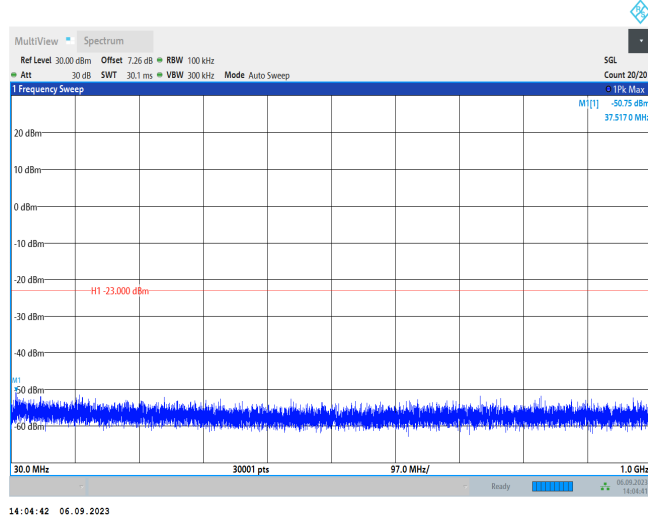
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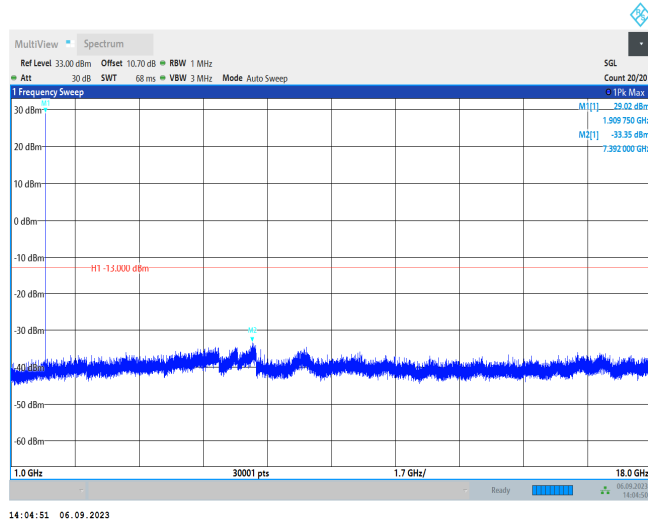


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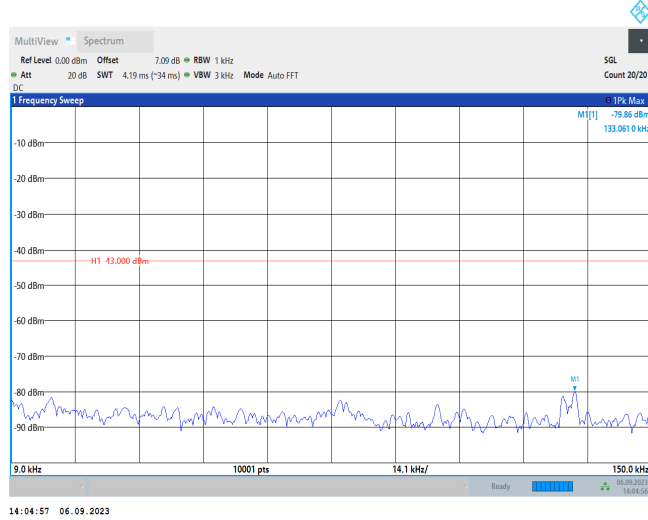
GSM1900-512-30~1000MHz



GSM1900-512-1000~18000MHz



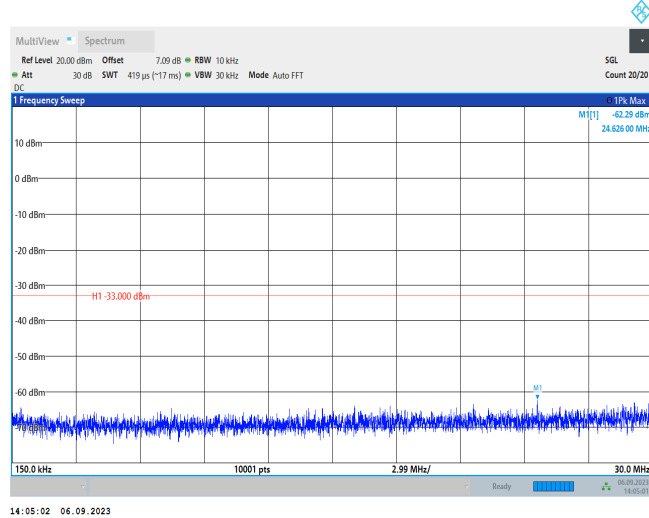
GSM1900-661-0.009~0.15MHz



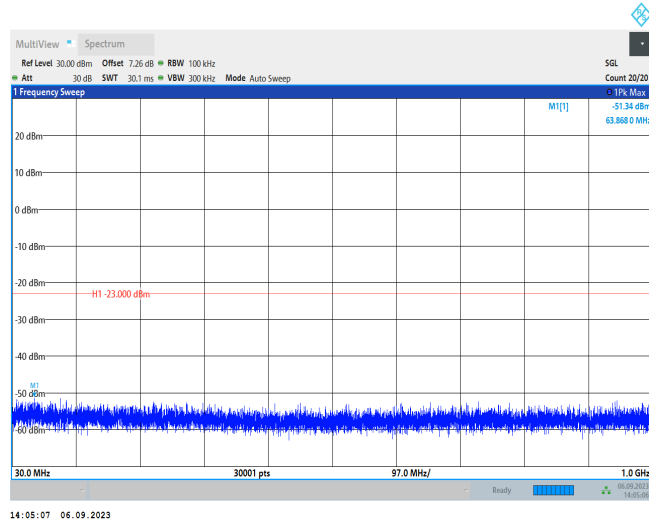
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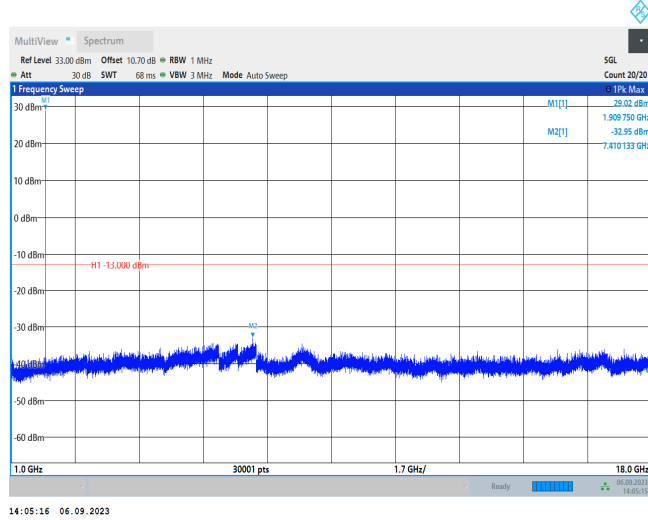
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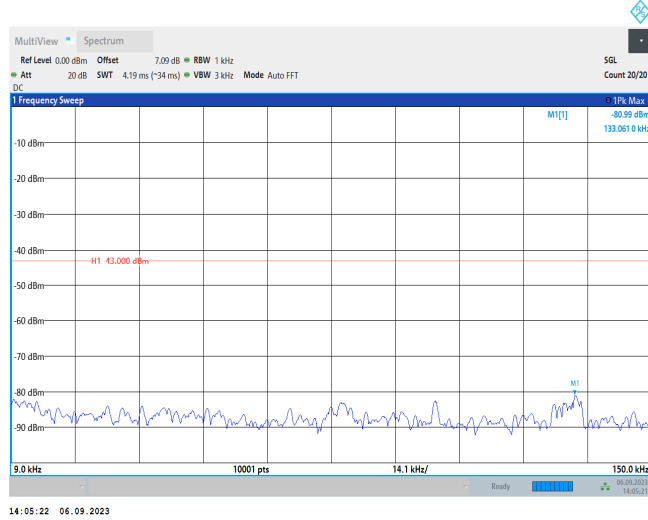
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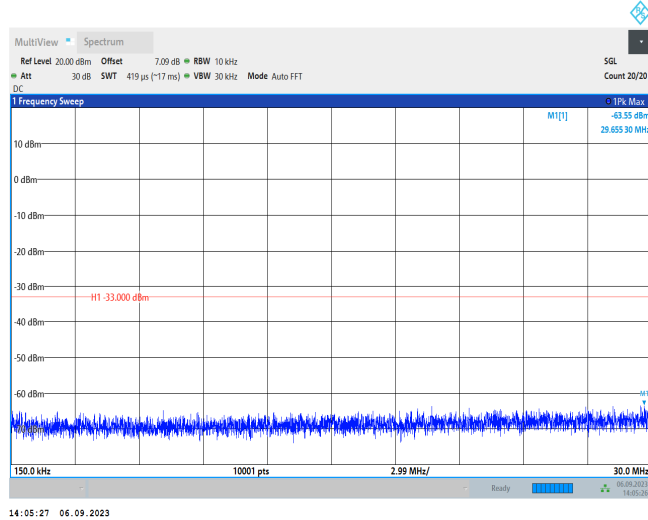
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GSM1900-810-0.009~0.15MHz



GSM1900-810-0.15~30MHz



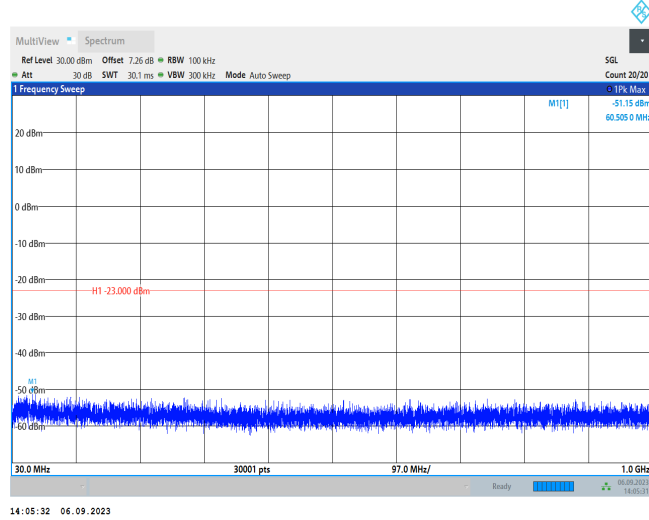


Report No.: XEWM2309000447RG01

Rev.: 01

Page: 47 of 64

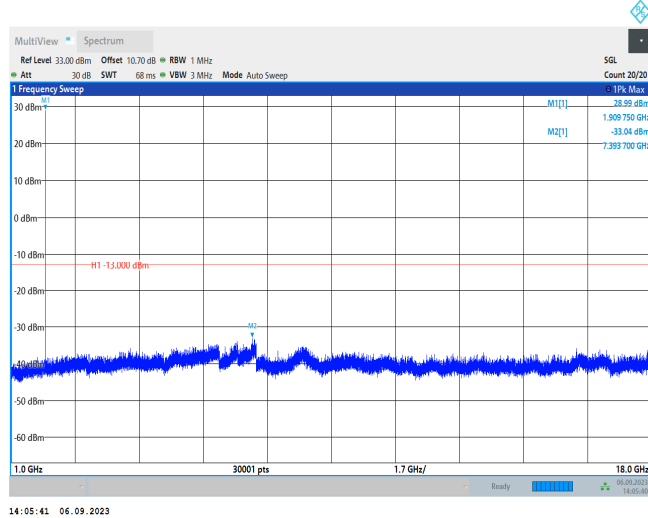
GSM1900-810-30~1000MHz



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GSM1900-810-1000~18000MHz



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EGPRS1900-512-0.009~0.15MHz

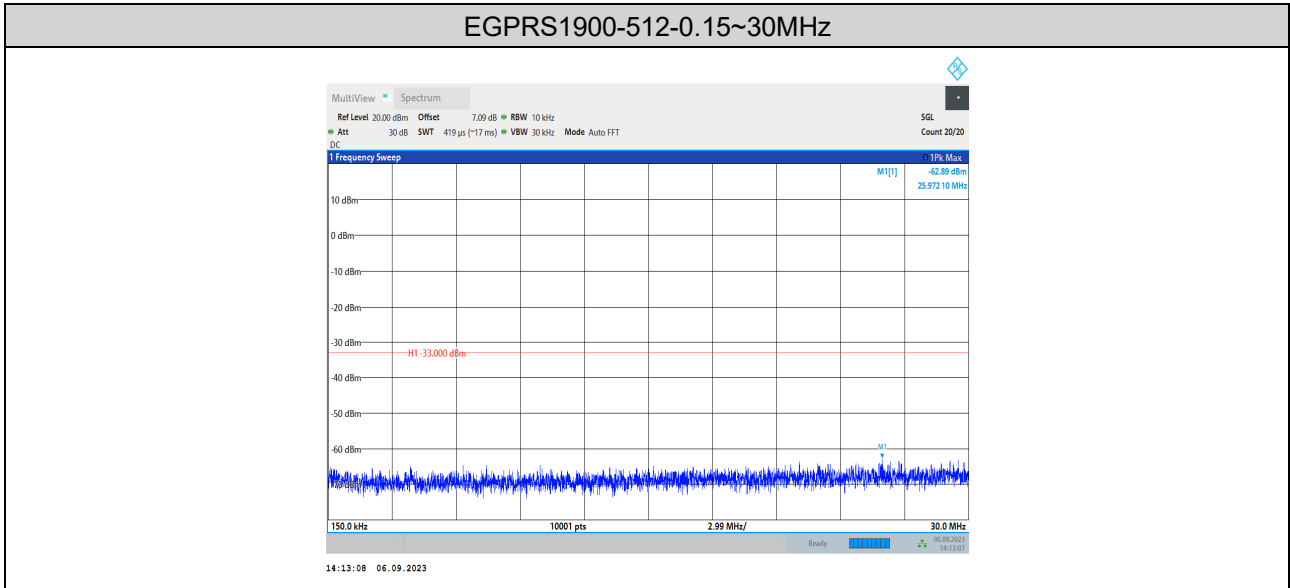


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Report No.: XEWM2309000447RG01  
 Rev.: 01  
 Page: 49 of 64

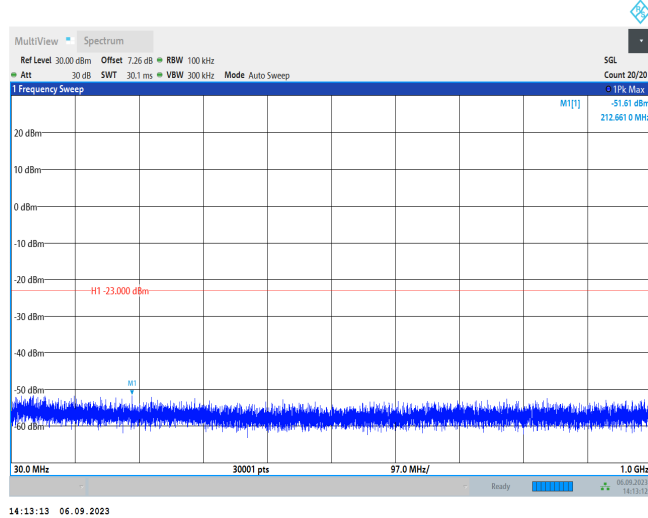


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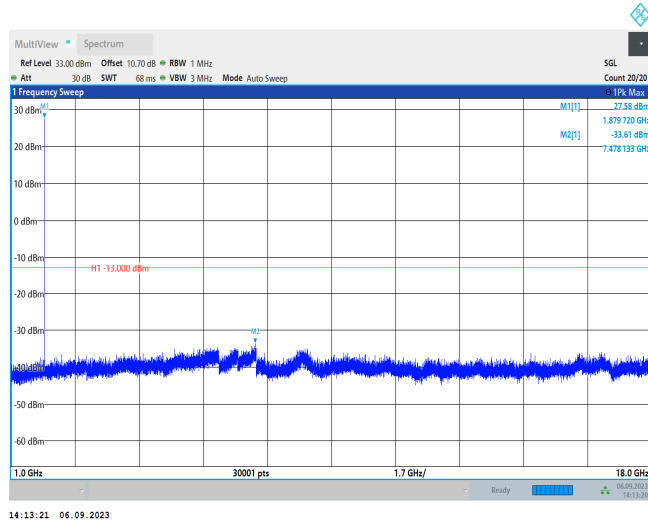
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 中国·西安·沣东新城科源三路137号康隆橙方科技园1号楼D单元1层 邮编: 710086 t: (86-29) 6282 7885 sgs.china@sgs.com

EGPRS1900-512-30~1000MHz



EGPRS1900-512-1000~18000MHz



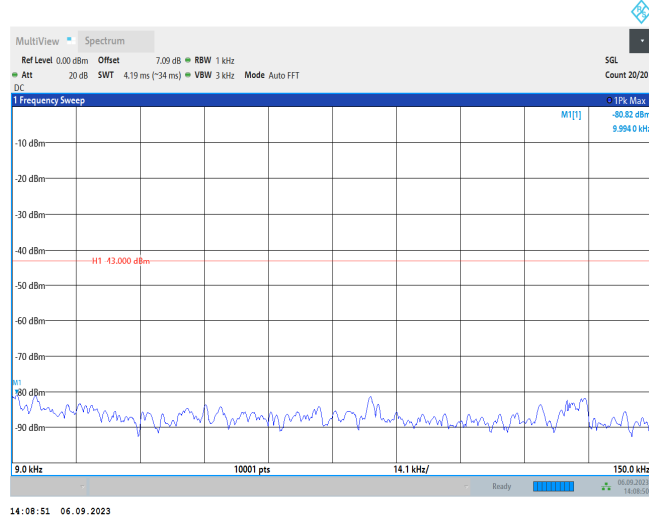


Report No.: XEWM2309000447RG01

Rev.: 01

Page: 51 of 64

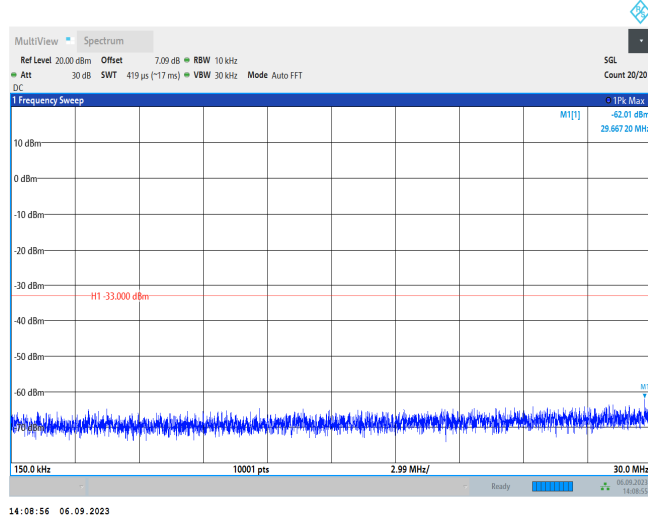
EGPRS1900-661-0.009~0.15MHz



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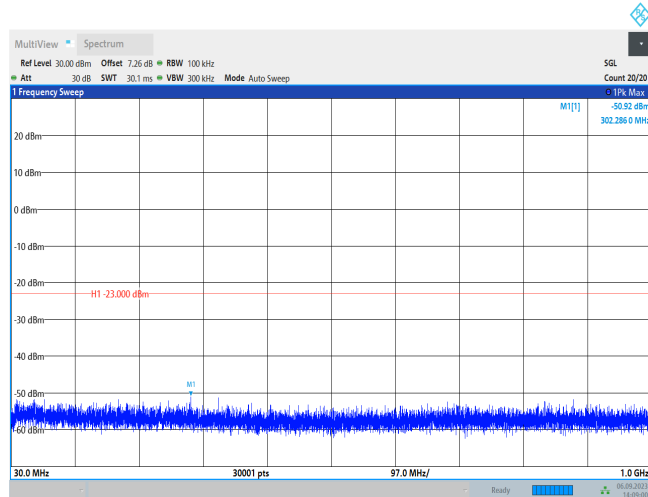
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EGPRS1900-661-0.15~30MHz



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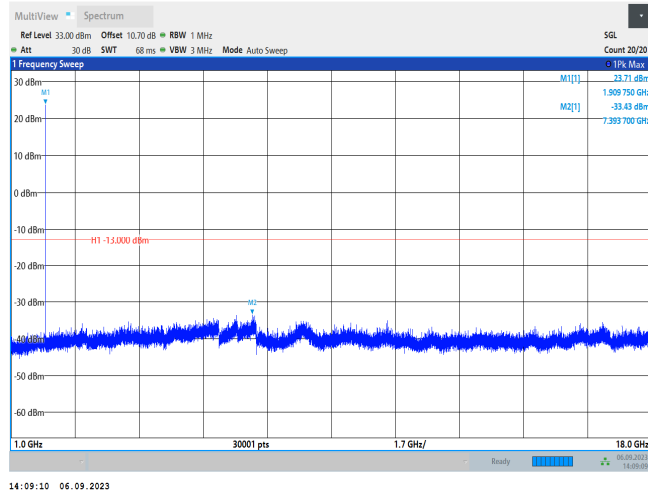
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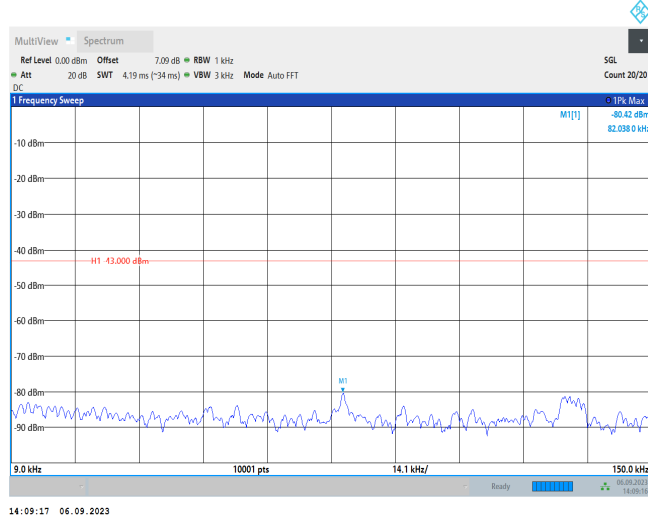
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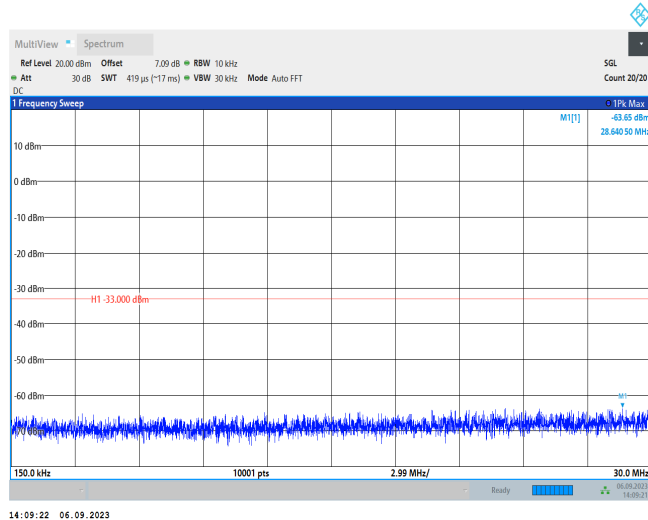
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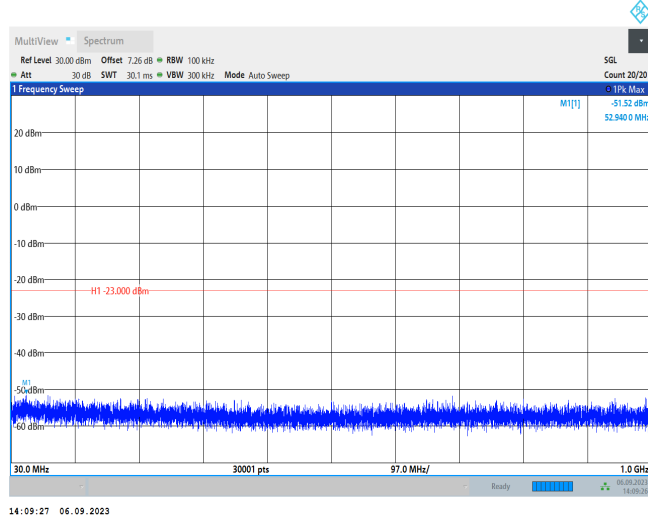
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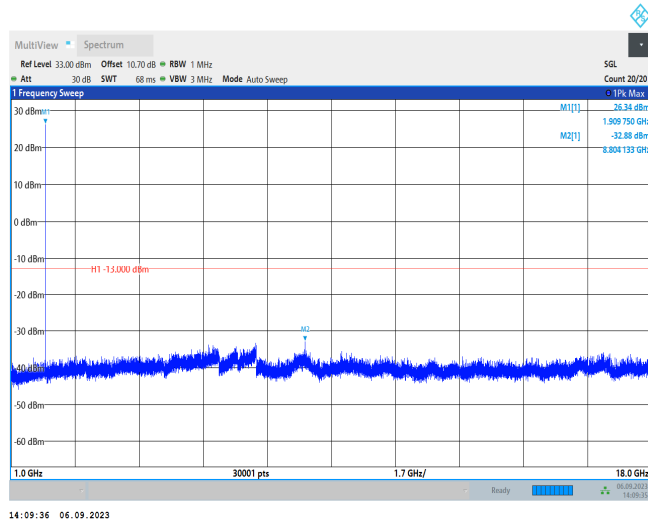
EGPRS1900-810-0.15~30MHz



EGPRS1900-810-30~1000MHz



EGPRS1900-810-1000~18000MHz



## Field Strength of Spurious Radiation

Test Band = GSM\_850

Test Channel = LCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.5	73.32	-47.52	25.49	-43.97	-13.00	30.97	Horizontal
2	2472.5	78.53	-46.67	27.69	-35.71	-13.00	22.71	Horizontal
3	3297	49.82	-45.72	28.51	-62.65	-13.00	49.65	Horizontal
4	5612	44.52	-41.39	32.58	-59.55	-13.00	46.55	Horizontal
5	7417.5	43.45	-38.36	36.74	-53.43	-13.00	40.43	Horizontal
6	9939.5	42.07	-35.44	38.64	-49.99	-13.00	36.99	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.5	63.78	-47.52	25.49	-53.51	-13.00	40.51	Vertical
2	2472.5	74.19	-46.67	27.69	-40.05	-13.00	27.05	Vertical
3	3297	49.76	-45.72	28.51	-62.71	-13.00	49.71	Vertical
4	4121	47.05	-44.04	29.46	-62.79	-13.00	49.79	Vertical
5	6632	44.44	-40.09	34.86	-56.05	-13.00	43.05	Vertical
6	9902.5	41.90	-35.30	38.60	-50.06	-13.00	37.06	Vertical



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Report No.: XEWM2309000447RG01

Rev.: 01

Page: 57 of 64

Test Band = GSM\_850

Test Channel = MCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1673	63.36	-47.48	25.32	-54.06	-13.00	41.06	Horizontal
2	2510	69.33	-46.64	27.80	-44.77	-13.00	31.77	Horizontal
3	3346	48.67	-45.64	28.59	-63.64	-13.00	50.64	Horizontal
4	4183	47.03	-43.87	29.53	-62.57	-13.00	49.57	Horizontal
5	6056	45.27	-40.57	33.49	-57.07	-13.00	44.07	Horizontal
6	9980.5	42.03	-35.60	38.68	-50.15	-13.00	37.15	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1673.5	56.40	-47.48	25.31	-61.03	-13.00	48.03	Vertical
2	2510	75.33	-46.64	27.80	-38.77	-13.00	25.77	Vertical
3	3346.5	48.72	-45.64	28.59	-63.59	-13.00	50.59	Vertical
4	4183	47.10	-43.87	29.53	-62.50	-13.00	49.50	Vertical
5	7419.5	43.60	-38.36	36.74	-53.28	-13.00	40.28	Vertical
6	9916	42.23	-35.35	38.62	-49.76	-13.00	36.76	Vertical



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Report No.: XEWM2309000447RG01

Rev.: 01

Page: 58 of 64

Test Band = GSM\_850

Test Channel = HCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.5	64.64	-47.43	25.12	-52.93	-13.00	39.93	Horizontal
2	2546.5	69.22	-46.45	27.80	-44.69	-13.00	31.69	Horizontal
3	3395.5	52.10	-45.54	28.60	-60.10	-13.00	47.10	Horizontal
4	4244	48.10	-43.42	29.78	-60.80	-13.00	47.80	Horizontal
5	6797.5	44.31	-39.55	35.39	-55.11	-13.00	42.11	Horizontal
6	9910	41.83	-35.33	38.61	-50.15	-13.00	37.15	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.5	62.99	-47.43	25.12	-54.58	-13.00	41.58	Vertical
2	2546.5	74.60	-46.45	27.80	-39.31	-13.00	26.31	Vertical
3	3395	55.12	-45.54	28.60	-57.08	-13.00	44.08	Vertical
4	4244	56.76	-43.42	29.78	-52.14	-13.00	39.14	Vertical
5	7420.5	43.88	-38.36	36.74	-53.00	-13.00	40.00	Vertical
6	9890	42.12	-35.31	38.52	-49.93	-13.00	36.93	Vertical



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Report No.: XEWM2309000447RG01

Rev.: 01

Page: 59 of 64

Test Band = GSM\_1900

Test Channel = LCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3000	37.74	-21.77	28.60	-50.69	-13.00	37.69	Horizontal
2	3700.5	85.85	-44.51	29.30	-24.62	-13.00	11.62	Horizontal
3	5550.5	62.92	-41.64	32.20	-41.78	-13.00	28.78	Horizontal
4	7416.5	44.28	-38.28	36.73	-52.53	-13.00	39.53	Horizontal
5	9892	42.36	-35.02	38.54	-49.38	-13.00	36.38	Horizontal
6	16401	41.78	-34.83	38.81	-49.50	-13.00	36.50	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3000	37.47	-21.77	28.60	-50.96	-13.00	37.96	Vertical
2	3700.5	85.60	-44.51	29.30	-24.87	-13.00	11.87	Vertical
3	5550.5	65.45	-41.64	32.20	-39.25	-13.00	26.25	Vertical
4	7484	44.32	-38.29	36.87	-52.36	-13.00	39.36	Vertical
5	9917.5	43.10	-35.42	38.62	-48.96	-13.00	35.96	Vertical
6	16347.5	42.35	-35.11	38.64	-49.38	-13.00	36.38	Vertical



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Report No.: XEWM2309000447RG01

Rev.: 01

Page: 60 of 64

Test Band = GSM\_1900

Test Channel = MCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2993	37.56	-21.78	28.56	-50.92	-13.00	37.92	Horizontal
2	3760	83.99	-44.76	29.64	-26.39	-13.00	13.39	Horizontal
3	5640	57.86	-41.32	32.52	-46.20	-13.00	33.20	Horizontal
4	7486	43.61	-38.29	36.87	-53.07	-13.00	40.07	Horizontal
5	9916	41.77	-35.38	38.62	-50.25	-13.00	37.25	Horizontal
6	16388	41.10	-34.89	38.76	-50.29	-13.00	37.29	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3000	37.45	-21.77	28.60	-50.98	-13.00	37.98	Vertical
2	3760	81.91	-44.76	29.64	-28.47	-13.00	15.47	Vertical
3	5640	62.72	-41.32	32.52	-41.34	-13.00	28.34	Vertical
4	7421	43.54	-38.28	36.74	-53.26	-13.00	40.26	Vertical
5	9887	41.57	-35.06	38.50	-50.25	-13.00	37.25	Vertical
6	16396.5	40.72	-34.84	38.79	-50.59	-13.00	37.59	Vertical



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Test Band = GSM\_1900

Test Channel = HCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2995.5	37.69	-21.78	28.57	-50.78	-13.00	37.78	Horizontal
2	3819.5	84.43	-44.79	29.76	-25.86	-13.00	12.86	Horizontal
3	5729.5	57.54	-41.23	32.50	-46.45	-13.00	33.45	Horizontal
4	7404	43.60	-38.28	36.71	-53.23	-13.00	40.23	Horizontal
5	11112.5	42.81	-37.80	40.20	-50.05	-13.00	37.05	Horizontal
6	13368.5	44.85	-38.64	39.69	-49.36	-13.00	36.36	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2994	37.36	-21.78	28.56	-51.12	-13.00	38.12	Vertical
2	3819.5	81.72	-44.79	29.76	-28.57	-13.00	15.57	Vertical
3	5729.5	62.31	-41.23	32.50	-41.68	-13.00	28.68	Vertical
4	8362.5	42.79	-36.99	36.35	-53.11	-13.00	40.11	Vertical
5	11098	42.46	-37.58	40.20	-50.18	-13.00	37.18	Vertical
6	13368.5	45.44	-38.64	39.69	-48.77	-13.00	35.77	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	VL	NT	0.84	0.001004	±2.5	PASS
GSM850	190	VN	NT	-3.78	-0.004518	±2.5	PASS
GSM850	190	VH	NT	-2.07	-0.002474	±2.5	PASS
EGPRS850	190	VL	NT	-14.46	-0.017284	±2.5	PASS
EGPRS850	190	VN	NT	-10.56	-0.012623	±2.5	PASS
EGPRS850	190	VH	NT	-5.29	-0.006323	±2.5	PASS

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict	
GSM1900	661	VL	NT	28.67	0.015250	PASS	
GSM1900	661	VN	NT	22.83	0.012144	PASS	
GSM1900	661	VH	NT	22.60	0.012021	PASS	
EGPRS1900	661	VL	NT	2.29	0.001218	PASS	
EGPRS1900	661	VN	NT	4.62	0.002457	PASS	
EGPRS1900	661	VH	NT	4.42	0.002351	PASS	



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Report No.: XEWM2309000447RG01

Rev.: 01

Page: 63 of 64

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	-1.74	-0.002080	±2.5	PASS
GSM850	190	NV	-20	-0.42	-0.000502	±2.5	PASS
GSM850	190	NV	-10	-0.94	-0.001124	±2.5	PASS
GSM850	190	NV	0	-5.00	-0.005977	±2.5	PASS
GSM850	190	NV	10	-0.77	-0.000920	±2.5	PASS
GSM850	190	NV	20	8.27	0.009885	±2.5	PASS
GSM850	190	NV	30	8.17	0.009766	±2.5	PASS
GSM850	190	NV	40	10.14	0.012120	±2.5	PASS
GSM850	190	NV	50	7.85	0.009383	±2.5	PASS
EGPRS850	190	NV	-30	-9.01	-0.010770	±2.5	PASS
EGPRS850	190	NV	-20	-6.72	-0.008033	±2.5	PASS
EGPRS850	190	NV	-10	-7.88	-0.009419	±2.5	PASS
EGPRS850	190	NV	0	-8.94	-0.010686	±2.5	PASS
EGPRS850	190	NV	10	-14.46	-0.017284	±2.5	PASS
EGPRS850	190	NV	20	-4.07	-0.004865	±2.5	PASS
EGPRS850	190	NV	30	-2.10	-0.002510	±2.5	PASS
EGPRS850	190	NV	40	2.13	0.002546	±2.5	PASS
EGPRS850	190	NV	50	1.29	0.001542	±2.5	PASS



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Report No.: XEWM2309000447RG01

Rev.: 01

Page: 64 of 64

Temperature						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	24.50	0.013032	PASS
GSM1900	661	NV	-20	26.60	0.014149	PASS
GSM1900	661	NV	-10	30.28	0.016106	PASS
GSM1900	661	NV	0	20.70	0.011011	PASS
GSM1900	661	NV	10	13.11	0.006973	PASS
GSM1900	661	NV	20	44.07	0.023441	PASS
GSM1900	661	NV	30	54.18	0.028819	PASS
GSM1900	661	NV	40	55.73	0.029644	PASS
GSM1900	661	NV	50	58.89	0.031324	PASS
EGPRS1900	661	NV	-30	1.16	0.000617	PASS
EGPRS1900	661	NV	-20	3.52	0.001872	PASS
EGPRS1900	661	NV	-10	1.65	0.000878	PASS
EGPRS1900	661	NV	0	2.26	0.001202	PASS
EGPRS1900	661	NV	10	5.49	0.002920	PASS
EGPRS1900	661	NV	20	0.55	0.000293	PASS
EGPRS1900	661	NV	30	27.48	0.014617	PASS
EGPRS1900	661	NV	40	22.47	0.011952	PASS
EGPRS1900	661	NV	50	30.51	0.016229	PASS

---End of Attachment---



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